



U.S. Department of Transportation

National Highway Traffic Safety Administration

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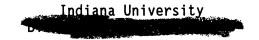
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*** *** ***



TRANSPORTATION RESEARCH CENTER



ON-SITE AIR BAG INVESTIGATION

CASE NO. - 90-03
FLEET - CORPORATE VEHICLE
LOCATION - INDIANA
ACCIDENT DATE - 1990

Submitted By:

Senior Staff Associate

Contract Number: DTNH22-87-C-07169

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration National Center for Statistics and Analysis Washington, D.C. 20590 "This document is disseminated under the sponsorship of the Department of Transportation in the interest of information exchange. The United States Government assumes no responsibility for the contents or use thereof."

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Fleet - Corporate Vehicle		• • • •	Lourning Orden 19119	
Location - Wheeling, Indi	iana	8 90	rforming Organizatio	- Proof No.
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Transportation Research (Center		entract or Grant No.	
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TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 90-03

FLEET - CORPORATE VEHICLE LOCATION - INDIANA

Summary

This report concerns a single motor vehicle off-road accident involving an air bag equipped 1990 Ford Taurus station wagon occurring on Station and the state of the state of

The Taurus was traveling west in the westbound lane of a two-lane undivided roadway when it swerved right to avoid a head-on collision with a non-contact vehicle which was traveling east on the same roadway. The Taurus entered the grassy shoulder on the north side of the road in order to avoid striking the on-coming vehicle. The Taurus reentered the roadway in a counterclockwise rotation. It crossed the roadway and the grassy shoulder on the south side of the roadway while continuing to rotate counterclockwise; it impacted and uprooted a medium-sized tree. The Taurus subsequently hit several small trees and rolled over coming to rest on its top facing south-southeast.

The right front door of the Taurus impacted the medium-sized tree. The front bumper impacted the small trees. CDCs were determined to be: 61-RPAW-5, 09-FDLS-1, and 00-TDD0-1. The CRASHPC reconstruction program was not used on the Taurus's medium-sized tree impact because the tree was uprooted and therefore could not be treated like an immovable barrier.

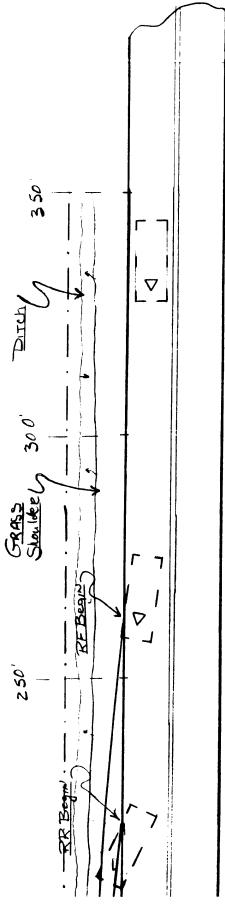
The 1990 Ford Taurus was equipped with a driver supplemental restraint system (air bag) which deployed as a result of the right side impact. The driver of the vehicle (43 year-old male) was also restrained by the active three-point lap and shoulder belt. He sustained a sprained right knee. The driver of the Taurus was listed on the Police Accident Report as sustaining a "B" (nonincapacitating-evident) injury as a result of this accident. The passenger (33 year-old female) in the Taurus was not wearing the available active three-point lap and shoulder belt. She sustained a fracture/dislocation of the atlanto-occipital joint, five right side rib fractures, and lacerations of her abdominal aorta, spleen, liver, and right lung. She was listed on the Police Accident Report as sustaining a "K" (fatal) injury.

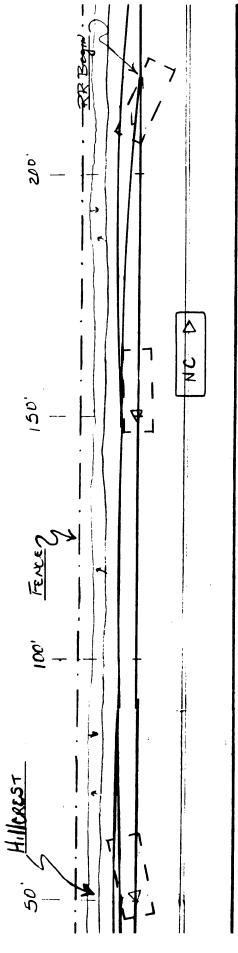
ACCIDENT SCHEMATIC Page 1 of 4

TRC/IU CASE NO. 90-03

<----- NORTH -----<

Scale: 1 inch = 20 feet

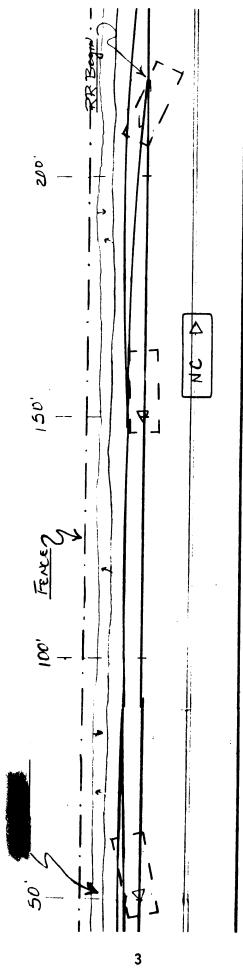




<---- NORTH -----<

Scale: 1 inch = 20 feet ACCIDENT SCHEMATIC Page 2 of 4

TRC/IU CASE NO. 90-03

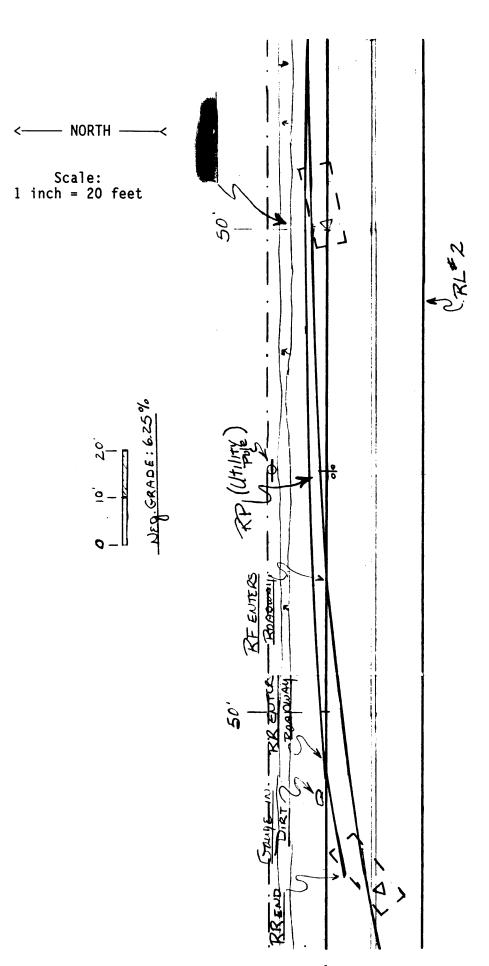


<---- NORTH -----<

Scale: 1 inch = 20 feet

ACCIDENT SCHEMATIC Page 2 of 4

TRC/IU CASE NO. 90-03



ACCIDENT SCHEMATIC Page 3 of 4

TRC/IU CASE NO. 90-03

TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 90-03

FLEET - CORPORATE VEHICLE LOCATION - INDIANA

ACCIDENT DATA

Location/Street: County Road

City/Township:

Area/Type: Rural/Agricultural

Accident Date/Time: 1990 @ 199

Investigating Police Agency: Sheriff Department

Accident Type: Car - ran-off-road fixed object

Occupant Injury Severity

(air bag vehicle): Laceration abdominal aorta (AIS-4)

(Front-right passenger)

AMBIENT CONDITIONS

Light conditions: Daylight

Weather Condition: Overcast

Precipitation: None (had rained earlier in morning)

Road Surface: Dry

ROADWAY

Case Vehicle

Location: County road

Number of Travel Lanes: 2-lanes, undivided

Width: 20 feet

Surface Type: Asphalt

Median: None

Shoulders: Grass

Vertical alignment: Negative grade: 6.25 percent

ROADWAY (CONT'D.)

Case Vehicle

Horizontal alignment:

Straight

Estimated Coefficient

of Friction:

.71 asphalt .45 wet grass

Traffic Density:

Moderate |

TRAFFIC CONTROLS

Case Vehicle

Signals:

None

Signs:

None

Markings:

Double yellow center lines

Speed Limit:

55 m.p.h.

VEHICLES

Case Vehicle

Year:

1990

Make:

Ford

Model:

Taurus GL

Body Type:

Station Wagon

V.I.N.:

1FACP5745LG-----

Color:

Gray

Mileage:

22,281

Engine:

V-6, 3.8 liter

Transmission:

Automatic

Steering:

Power-assisted, rack-and-pinion

Brakes:

Power-assisted front disc brakes, rear drum

brakes

Padding:

Dash, steering wheel, doors

VEHICLES (CONT'D.)

Case Vehicle

Active Restraints:

Front and rear, 3-point lap and shoulder

Passive Restraints:

Factory installed driver supplemental restraint

system (air bag)

Defects:

None

Fleet:

Corporate vehicle

Tow status:

Towed due to damage

VEHICLE DAMAGE

Exterior

Case Vehicle

Deployment Impact

Event number:

1

Object Struck:

Medium-sized Tree

Damage location

Damaged Plane:

Right

Vertical Location

On Plane: Direct Begins:

Mid-door 36.50 inches forward of right-rear axle

Length Direct: Field L:

42.00 inches 2.50 inches 16.00 inches

14.00 inches

C₁: C₂: C₃:

34.00 inches 28.50 inches 15.00 inches 7.25 inches

Maximum Crush:

+ 2.0 inches **34.00** inches

Location:

 c_3

CDC:

61-RPAW-5

Damaged Components:

Right-front door, roof, windshield

1st Nondeployment Impact

Event number:

2

Object Struck:

Small trees

VEHICLE DAMAGE (CONT'D.)

```
Exterior (Cont'd.)
                                 Case Vehicle
1st Nondeployment Impact (Cont'd.)
Damage location
   Damaged Plane:
                                 Front
   Vertical Location
     On Plane:
                                 Bumper level
   Length Direct:
                                 60.0 inches
   Direct Begins:
                                 Right-front bumper corner
   Field L:
                                 60.0 inches
   C<sub>1</sub>:
C<sub>2</sub>:
C<sub>3</sub>:
                                 2.0 inches
                                 0.5 inch
                                 0.0 inches
                                 0.0 inches
                                 0.0 inches
                                 0.0 inches
                                 0.0 inches
   Maximum Crush:
                                 2.0 inches
     Location:
                                 \mathsf{c}_1
CDC:
                                 09-FDLS-1
Damaged Components:
                                 Front bumper
2nd Nondeployment Impact
Event number:
                                 3
Object Struck:
                                 Ground
Damage location
   Damaged Plane:
                                 Top
   Vertical Location
     On Plane:
                                 Not applicable
   Length Direct:
                                 Not applicable
   Direct Begins:
                                 Not applicable
   Field L:
                                 Not applicable
                                 Not applicable
   C<sub>1</sub>:
   C2:
                                 Not applicable
                                 Not applicable
                                 Not applicable
                                 Not applicable
                                 Not applicable
                                 Not applicable
   Maximum Crush:
                                 Scratches
     Location:
                                 Roof
CDC:
                                 00-TDD0-1
Damaged Components:
                                 Left-rear side glass
```

VEHICLE DAMAGE (CONT'D.)

<u>Interior</u>

Damaged Components:

Instrument panel and glove box, right-front pas-

senger's seat, sunvisors, floor, right-front in-

terior light, ashtray

Other Evidence of

Occupant Contact:

Blood/hair on interior rooflight; blood on roof; scuffs: right-front arm rest, upper A-pillar, B-pillar, right-front interior door surface,

glovebox door, right-side roof rail

Manual Restraint

System Failures:

None

Seat Performance

Failures:

Driver's right side seatback anchor is pulled away from cushion; right-front seat back deformed rearward and seat cushion deformed later-

ally

Repair

Cost Estimate:

Vehicle was a total loss

VEHICLE VELOCITY ESTIMATES

Highest Delta "V"

Case Vehicle

Reconstruction Program:

None

Program Algorithm:

Not applicable

Travel Speed:

45-50 (Driver estimate)

Total Delta "V":

Unknown

Longitudinal Delta "V":

Unknown

Lateral Delta "V":

Unknown

COLLISION SEQUENCE

Pre-Crash:

The case vehicle (Taurus) was traveling west in the westbound lane of a two-lane undivided county roadway. A noncontact vehicle was traveling east on the same roadway. As the noncontact vehicle crested the hill the driver of the case vehicle perceived the noncontact vehicle to be traveling in the middle of the roadway and swerved right onto the grassy shoulder on the north side of the road in order to avoid striking the noncontact vehicle. While attempting to return to the roadway,

COLLISION SEQUENCE (CONT'D.)

the case vehicle began to rotate in a counterclockwise fashion. The rotation was accelerated as the grassy shoulder became level as the vehicle crested the hill. The case vehicle crossed the roadway and the grassy shoulder on the south side of the roadway while continuing to rotate counterclockwise. The accident occurred on the south roadside. The noncontact vehicle continued on and was not identified.

Crash:

The right front door of the case vehicle impacted a mediumsized tree causing the driver side supplemental restraint system (air bag) to deploy. The case vehicle subsequently hit several small trees and rolled over coming to rest on its top facing south-southeast.

Post-Crash:

Occupants:

The driver of the case vehicle remained inside the vehicle at final rest. He was conscious though somewhat disoriented as a result of the accident. The driver remained belted in an upside down position since the vehicle was on its top at final rest. He was able with the assistance of passersby who pried open the left-rear door to exit the case vehicle. The right-front passenger remained inside the vehicle at final rest and was found lying on the roof of the vehicle. She was unconscious and was unable because of her injuries to exit the case vehicle.

Police:

The investigating police agency was notified of the accident within four minutes and arrived on-scene within fourteen minutes. Traffic control procedures were established and emergency medical and towing services were called to assist.

Rescue:

The driver was transported by ambulance to a medical facility where he was treated and released. The right-front passenger was pronounced dead at the scene. She was subsequently transported to a medical facility where an autopsy was peformed.

Removal:

Following the police investigation, the case vehicle was towed from the scene.

HUMAN FACTORS/OCCUPANT DATA

Case Vehicle

<u>Driver</u>: 43 year-old male

Height: 71 inches

Weight: 205 pounds

Occupation: Sales representative

HUMAN FACTORS/OCCUPANT DATA (CONT'D.)

Case Vehicle

Active Restraint

System/Usage:

3-point lap and shoulder/used

Usage Source:

Driver interview/medical records

Eye glasses/contacts:

None

Vehicle Familiarity:

Eight months

Route Familiarity:

First time on trafficway

Trip Plan:

Attend a festival in another county

Manner of Leaving Scene:

Ambulance

Type of Medical Treatment:

Treated and released

Passenger:

33 year-old female

Seated Position:

Front-right

Height:

67 inches

Weight:

120 pounds

Active Restraint

System/Usage:

3-point lap and shoulder/not used

Usage Source:

Driver interview/Police Accident Report

Manner of Leaving Scene:

Ambulance

Type of Medical Treatment:

None - Dead at scene

DRIVER INJURIES

Injury

Severity (OIC/AIS)

Source

Sprain right knee

KRSJ-1

Center instrument panel

PASSENGER INJURIES

<u>Injury</u>

Severity (OIC/AIS)

Source

Fracture/dislocation of atlanto-occipital joint

NPZV-2

Roof side rail

PASSENGER INJURIES (CONT'D.)

Injury	Severity (OIC/AIS)	<u>Source</u>
	•	Right-side door interi- or surface excluding hardware
Fracture right 5-9 ribs	CRFS-4	
Laceration abdominal aorta	MCLA-4	
Laceration right lung	CRLP-3	
Laceration liver	MRLL-2	
Laceration spleen	MLLQ-2	

DRIVER KINEMATICS

The driver of the case vehicle was seated in an upright position using the available active 3-point lap and shoulder restraint. The driver steered the case vehicle as evidenced by the vehicle's right roadside departure and subsequent reentry onto the roadway. There is no evidence or driver indication of braking during the vehicle's travel on either the north grassy shoulder or on the south grassly shoulder near impact.

The driver moved toward the center of the instrument panel as a result of the vehicle's impact with the medium-sized tree. The active restraint worn by the driver and the air bag prevented him from contacting the windshield, steering wheel, upper instrument panel, or front-right passenger. Evidence indicates the driver contacted the lower center instrument panel and the air bag.

The impact with the several small trees occurred right after the main impact and was of little consequence energy-wise. This impact probably did not change the driver's kinematics. During the rollover the driver remained restrained by the 3-point lap and shoulder belt which held him essentially in place throughout the roll. At final rest the driver was held by the active restraint system in an upside-down position as the vehicle came to rest on its top.

PASSENGER KINEMATICS

The front-right passenger in the case vehicle was seated in an unbelted upright posture. During the vehicle's counterclockwise rotation and the driver's steering maneuvers the passenger's posture probably changed very little. The passenger most likely loaded into the front-right door.

At impact the passenger heavily loaded the right-front door and roof side rail area as they were being crushed inward toward her. This kinematic pattern is consistent with the right side injuries she sustained. The passenger probably rebounded backwards against the her seatback or the driver due to the extensive intrusion into her occupant space. Once again, the impact with the several small trees made little or no differece in her movements. During the

PASSENGER KINEMATICS (CONT'D.)

roll the passenger reloaded the right-front door area with her head upwards against the roof.

At final rest the passenger was lying on the roof under the driver.

AIR BAG SYSTEM

Deployment Threshold:

Unknown

Airbag Diameter (seam-

to-seam, deflated):

24 inches

Number of Vent Holes:

Two

Vent Hole Diameter:

Not measured

Vent Hole Clock Positions:

3 and 9 o'clock

Generant Residue:

None noted

SELECTED PRINTS



01 -- 1990
Indiana
TRC/IU: 90-03, Task: 0070
Path of travel & departure



02 -- 1990
Indiana
TRC/IU: 90-03, Task: 0070
Right tire scuffs in reentry



03 -- 1990 Indiana TRC/IU: 90-03, Task: 0070 Right scuffs in CCW rotation



04 -- , 1990
Indiana
TRC/IU: 90-03, Task: 0070
Broadside slide into impact



05 -- , 1990 Indiana TRC/IU: 90-03, Task: 0070 Looking back from impact



06 -- 1990
Indiana
TRC/IU: 90-03, Task: 0070
Taurus left frontal view



07 -- 1990
Indiana
TRC/IU: 90-03, Task: 0070
Front left leftside view



08 -- 1990 Indiana TRC/IU: 90-03, Task: 0070 Rear left rearside view



09 -- 1990
Indiana
TRC/IU: 90-03, Task: 0070
Full view of rear plane



10 -- 1990 Indiana TRC/IU: 90-03, Task: 0070 Right rear rightside view



11 -- , 1990 Indiana TRC/IU: 90-03, Task: 0070 Right front rightside view



12 -- 1990

Indiana
TRC/IU: 90-03, Task: 0070
Closeup of tree impact



13 -- 1990 Indiana

TRC/IU: 90-03, Task: 0070 Front right frontal view



14 -- 1990 Indiana

TRC/IU: 90-03, Task: 0070 Sky view from left side



15 --1990

Indiana
TRC/IU: 90-03, Task: 0070
Sky view from right side



16 --1990

, Indiana TRC/IU: 90-03, Task: 0070 Interior viewed from rear

SLIDE INDEX

SLIDE INDEX

Slide No.	Description	Direction
1	Path of vehicle travel, and location where vehicle departs onto right shoulder (yellow flags equal right side tires; red flags equal left side tires)	West
2-7	Right side of vehicle on north shoulder; vehicle is in a slight counterclockwise yaw	West
8	Right side of vehicle reenters roadway from north shoulder	West
9,10	Right side tires mark on roadwayvehicle continues in counterclockwise rotation	West
11-14	Vehicle departs south side of roadway while continuing its counterclockwise rotation into impact with tree (cone represents original location of tree)	West
15-16	Looking back from point of impact with tree	East
17	Looking back from area where vehicle first departed onto north shoulder	East
18-27	Overview of exterior damage to case vehicle (counterclockwise direction around vehicle)	
28-30	Front damage with contour gauge in place	
31,32	Sky view showing crush to right front door area	
33-36	Crush documentation with contour gauge in place	
37	Contour rod depicts Principal Direction of Force (PDOF approximately 30-40 degrees) of tree into right front door	
38	View showing height of direct contact damage	
39-41	Damage to windshield with areas of "holed" glazing	
42-45	Interior of case vehicle showing deployed air bag and area of intrusions	

SLIDE INDEX

Slide No.	Description	Direction
46-52	Interior showing right side intrusions and occupant contacts	
53,54	Left rear door: latch/striker-damage, damaged during extraction	





9003 #3















































st Availat



























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Availabl















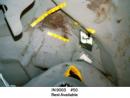
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Accident Collision Measurement Table



U.S. Department of Transportation
National Highway Traffic Safety
Administration

ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	Case Number - Stra	tum 9003
PHYSICAL EVIDENCE ABSENT To be accomplished when there is no physical evidence present at the scene: "approximate vehicle orientation at impect and final rest "expericable road/roadway delineation (a.g., ourbe/edge lines, lane markings, median markings, pavement markings, atc.) "applicable traffic controls (a.g., speed limit) "north arrow placed on diagram "statch required LEVEL II PHYSICAL EVIDENCE PRESENT In addition to the Level I tasks noted "complished whe present: "document reference (a.g., speed at the scene) "acaled documents (a.g., speed applicable roadway surface applicable roadway surface applicable roadway. "content reference (a.g., speed applicable roadway) "content reference (a.g., speed applicable) "content refe	If (Control) In physical evidence is In physical evidence is It control features present Ition of all accident Indianae Ition of all readelds Indianae Ition of all readelds Indianae Ition of all readelds Ition of the vehicle(s) Itions of the vehicle(s) Itions of the vehicle(s) Itions of the vehicle(s) Itinates in the initial readells Itinates in the initial rea	Dry
Reference Point: / Italy Poli on Nocle		N. Roade Fal
of ready	RL=2 S. Roofelo	10
Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
_	Distance and Direction	Distance and Direction
1 RF VI leaves road pt. Showler	Distance and Direction from Reference Point	Distance and Direction from Reference Line
ltem	Distance and Direction from Reference Point 262.2 E	Distance and Direction from Reference Line
1 RF VI leaves road . pt. Synwa	Distance and Direction from Reference Point 2622 E 219.9 E	Distance and Direction from Reference Line 3.4 N
tem 1 RF VI leaves road it Showen 2 Milpt of RF on Showen 3. ER leave road - rt Showen 1 RF milpt. on Showen 5. RR milpt. on Showen	Distance and Direction from Reference Point 2622E 219.9E 219.9E	Distance and Direction from Reference Line 3.4 N 0.0
tem 1 RF VI leave road pit Showler 2 Milpt of RF on Showler 3 ER leave road - rt Showler 4 EF milpt on Showler 5. RR-milpt on Showler 6. Young on 4t Showler (3.671.7)	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E	Distance and Direction from Reference Line 3.4 N 9.0 4.0 N
tem 1 RF VI leave road it Showen 2 Milpt of RF on Showen 3 ER leave road - it Showen 4 RF milpt on Showen 5. RR milpt on Showen 6. Your on it should (middle) 7. RR milpt on Showen	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E	Distance and Direction from Reference Line 3.4 N 0.0 4.0 N 2.9 N
1 RF VI leaves road it Showsen 2 Milpt of RF on Showsen 3 ER leave road - It Showsen 4 EF milpt on Showsen 5. RR milpt on Showsen 6. Your on It should (middle) 7. ER milpt on Showsen 8 RF milpt on Showsen 8 RF milpt on Showsen	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E 179.3E	Distance and Direction from Reference Line 3.4 N 0.0 4.0 N 2.9 N 1.4 N
1 RF VI leave road it Showen 2 Milpt of RF on Showeler 3 ER leave road - it Showeler 4 RF milpt on Showeler 5. RR milpt on Showeler 6. Your on it should (middle) 7. RR milpt on showeler 8 RF milpt on showeler	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E 179.3E 166.E	Distance and Direction from Reference Line 3.4N 0.0 4.0 N 2.9 N 1.4N 3.5N
1 RF VI leaves road it Showson 2 Milpt of RF on Showson 3 ER leave word - it Showson 4 EF milpt on Showson 5. RR-milpt on Showson 6. Your on it showson 7. RR milpt on showson 8 RF milpt on showson 9. RR dwage from RF 10 RF dwage from RR	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E 179.3E 166.E 150.E	Distance and Direction from Reference Line 3.4N 0.0 4.0 N 2.9 N 1.4N 3.5N 3.5N
I RF VI leaves road it Shows 2 Milpt of RF on Showson 3. ER leave road - it Showson 4 RF milpt. on Showson 5. RR-milpt. on Showson 6. Your on it should (middle) 7. ER milpt on Showson	Distance and Direction from Reference Point 2622E 219.9E 219.9E 178.8E 179.3E 166.E 150.E 100.E	Distance and Direction from Reference Line 3.4N 9.0 4.0 N 2.9 N 1.4N 3.5N 3.5N 3.7 N

RL#2

	Distance and Direction	Distance and Direction
ltem	from Reference Point	from Reference Line
13. RF sales monderay	25. W	20. N
14. RE millet on Eloude	25.W	22.2 N
15. RF milet An Making	62.0W	15.3N
16 RR enters roadways	62.0W	20.00
17. Luga (3.5 x 1.5) middle	67.8W	20.5N
18 RE scuffs in Mond	82.3W	16.31)
19. LF Coase roud eater left should	118.7W	0. 😝
20 Douge on lift should (6"x12")	128.500	2.3 s
21. RF Seave road onto left Signatur	132 W	0.0
22 LR Scare Mont	143.5W	0.0
23 TE leave rad	151.2 W	0.0
34. LR might on Shoulder	155.5W	5.3 \$
25. RF milpt	1555 W	10.25
26. LF milest	155.5 W	13,55
27. Your 13.0x 3.0) in dut	165.1 W	14.45
29. RR mulpt	180.0W	9.65
29 LR milpt	180.0W	11.65
30. RF milpt.	180.W	18.0 S
31. LF melpt.	190.0 W	20.2S
32 RRends	195.W	13.85
33. LReads	195.W	16.95
34 RFants	196.710	23.25
35. LFera	199.0W	2 5 .0\$
36. True stemp (me" section)	200.4W	20.75
37. Smull fee	198.W	27.45
38. Mispt. of final rest aren	214.10	80.5S
39. Produnth = 20."		

Appendix A:

Police Accident Report

				DARD ACCI		REPOF		cident I		ICE U	SE ON	_Y	
Mail	to: Indiana	State Police.	Ar,cident	Records Section									
Date of Accident	YEM9	O Day of V	Veek -	Actual Local Ti	me	[X] AM □ PM	No. Mo Vehicle	tor	No. Injure	M be	to Dead	No.	Trange
County			Town	nship			Cin	/Town	or Neare:	st City/	Town		
Inside Corporate	Limits? Pro	operty?	DNA	Distance and Dire		om Corporate	Limits					<u> </u>	
			Other	3½ Miles			iles Sout			iles Eas	u	Mik	es West
Road Accident C	ccurred On				inte	rsecting Roa	d/Mile M	rker/los	erenange				
If not at intersect of feet from		Direction		st Intersecting Roa	d/Mile M	arker/Interch	ange			十			
Driver's Name (L.	8 fast, First, MI)	East	CR		D	river s Name (Last, Firs	i. Mi)					<u>X</u>
Address (Street.	City, State, Zi	P			^	dress (Street	, City, St	ate, Zip					
Apparent Phys. Stat (enter no.)	1 6	ite of Birth	VG V	Arrested?	23	oparent Phys. at (enter no.)		Date	of Birth		YEAR	Arresto	
Driver's License	M		Lic Typ	Yes No Lic. St Rest	≥	river's Licensi			TH DAY			Ye	
Cities s cicerisa	10		OM	IN	ē	IVET S LICETISE	e NO.				Lic. Typ	Lic. St	Restr
Color GRY	Ven Yr Ma	Ford	Model N	rus (4W)	C	olor	Veh.	r. Mak	•		Model	Name	
Veh Type	Lic Yr Lic	ense No.		Lic State		en Type	Lic. Y	r. Lica	nse No.	_	<u> </u>	Lic. Si	ate
(enter no) 1	90 (·	IN		nter no)				\angle			
Veh Use (enter no.) 1	Speed Limit	Fuel Tax No				nter no)	Spee	d Limit	Fuel Ta	A No.			
Direction of TraveWest	No Occupant	IC1 I	1.	ransporting lazardous Mat.		rection of	No. O	ccupant	Fye?	No		Transport Hazardou	
Towed To	<u> </u>	INO Towed 8		Yes X No		owed To			No No	wed By			☐ No
Ĭ					TO TO								
Registered Owne	r's Name (Las	it, First, MI)			> A	egistered Own	ner's Nam)d (Last.	First, MI)			
Address (Street,	City, State, Zig	D)			^	dress (Street	i. Ciyy. Si	ete. Zip	 -				
Registered Owner	r's Name (Las	st. First. MI)		=	B	agistered Ow	Name Name	A (1 24)	First MI	<u> </u>			
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to avoid Veh X which crested a hil	l and was le	eft of center. Ve	h #1 reenter	ed the roadway
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and driver lost control. Vehicle	Diagram Attached NARRATIVE (Refer to Vehicle by Number) I was westbound on CR			
and driver lost control. Vehicle tree stump and flipped onto its to	l and was le skid b <mark>roads</mark> i	eft of center. Vende thru the grass	h #1 reenter	ed the roadway
and driver lost control. Vehicle tree stump and flipped onto its to Other Participant(a) Name, Address (osc.)	l and was le skid b <mark>roads</mark> i	eft of center. Vende thru the grass	h #1 reenter	ed the roadway
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and driver lost control. Vehicle tree stump and flipped onto its to Other Participant(a) Name, Address (osc.)	l and was le skid broadsi p.	eft of center. Vende thru the grass	Location at	red the roadway king a
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Death 1	[nvest:	igation	n												
Victim's Name (or If Busines	a, list incorpo	orated Name)								Responsib	le Party			
Victim's Address	(Street, City	, State, Zip)									L		Home Phone		
Wanna Gar	Rese	000		4.00	ceu								Phone		
		000		1 -				Multi		Craum	matic/	Enter			orgue
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	Sept Pace DOB Age SSN Describe Injury Place of Treatment														
			Exact Location of	Offense											
Business	See Nace Door Name N														
Was there a witr	ness to the c	rime?	16	VEC -								: <u>-</u> -		•	☐ No
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Active Field Supervisor	Death Investigation Separation Separati														
Agree	Seath Trivestigation														
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	SUPPLEMENTAL CASE REPORT
1	,

			2	of .	Case Ne.
Offer		Supervisory Correction	No. 2 or	3	
Vietim	Death Investigation Name (or if Business list Incorporated Name)		Resp	onsible	Party
SPACE SPACE	On -90 at approximately AM I	was notified of	an au	to a	ccident on CR
	East of CR W. I arrived at the scene at	AM. Upon ar	rival	the	scene was assessed,
	points of particular attention relative to ac	ccident reconstru	ction	wer	e noted. Tire prints
	from the vehicle were found in the grass off	the north edge of	of the	roa	dway. Tire marks
	were found coming bak onto the roadway. The	se tire marks wer	e cur	ved	and had striations,
	indicating that the vehicle sidesliped. These	e marks left the	south	side	of the roadway and
	continued accross a grassy area to a large	clump of brush,	small	tres	, and a large tree
	stump. The vehicle was sitting on it's top in	n a brushy area.	The v	ricti	m was still in the
	vehicle. The scene was then measured by mem	bers of the accid	dent i	econ	struction team.
	Officer was assigned to supervise mea	surements and con	mplete	a s	cale diagram of the
	scene. Officer took photographs of the	scene and was a	ssigne	ed to	complete the
	Ind. standard accident report. Officer	was assigned the	task	of o	btaining a statement
	from the driver and a legal blood alcohol te	st from the same	•		
	As a result of evidence collected at th	e scene it was d	etermi	ined	that the vehicle
	was travelling west on Cr east of CR	The vehicle	left	the	northside of the
	road. The driver steered left to bring the v	ehicle back onto	the i	coad,	over-correcting.
	the vehicle began to sideslip rotating count	er-clockwise. the	e veh:	icle	left the the south-
	side of the road silding thru a grassy area	and struck a lar	ge tr	ee st	ump that was sur-
	rounded by small trees and brush. The vehicl	e the overturned	comi	ng to	rest on it's top.
	A speed estimate of 44.5 MPH was made by	using the criti	cal s	peed	formula. Results
	of a medical legal examination determined th	at the victim di	ed fr	om ex	ansuation due to
	multiple internal injuries that occurred as	a direct'result	of the	e aut	o accident.
	The driver of the vehicle stated that he	was forced off	the r	oad t	y an oncoming mar
	vehicle, possibly a Chev wagon, that was lef	t of center as i	t cre	sted	
	the accident scene.				Total Value Resovered (States)
Initial Officer's	# Status Recommend to Cents The Suspended Unifounded (3) Cleared (3) Padd (4)	nue initial Officer's N	ama, PE, C	***	90
Assigned Inve	religener Status Princi Status (Investiga	thre Coordinater)			
	he 🔲 Buspended 📋 Uniformised 📋 Classical				

<i>i</i>	SUPPLEMENTAL CASE REPORT		
4			age of Case No.
Offe	nee _ / /)	Supervisory Correction No. 2	2 or 3
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VOLUNTARY STATEMENT

DATE: 1990 PLACE SCENE VE AV	TIME STARTED _//./5	AM.
I, the undersigned,	am 26_ years of age, my date and	d place of
birth being the		
I now live at _		
Before answering any questions or making any statements.		
a person who identified himself as a	court or courts of law for the offense or in choice before or at anytime during any que me by the proper authority, before or at stions or making any statements at any time y more statements, whether or not I have a lawyer present while	swer any offenses sestioning anytime ne that I a already
I declare that the following voluntary statement is made of my own free will without promise of hope or reward coercion, favor or offer of favor, without leniency or offer of leniency, by any person or persons whomsoever.	, without fear or threat of physical harm,	, without
		
I APPROACED THE ACCIDENT FROM THE GAST. (TRAVE	WING WEST) AS WE	
CAME OUER THE HILL A CAR WAS TRAVELING IN CENT	BE OF ROAD AND	
RETURNSO TO ITS LAWE, BOTH PASSENGERS WEEL ST	LL IN USAIRLE WHEA	<u>. </u>
I LOOKED INSIDE, 4 MEN WERE ATTEMPTING TO REMO	OUE PASSENGERS FR	10m_
THE ULHICLE. I WAS TALKING TO HIM WHILE WERK	CLETONIO HIM UP	<u> 4 </u>
HE HAD BEST RIMOVED FROM THE VEHICLE. HE ASKED !		
THAT RAN ME OFF THE ROAD. I SAID TO HIM "I THOU	CHT IT WAS A DOG	<u> </u>
HE REPLIED "NO, IT WAS A MAROON CHEURILE WASON,	THAT WAS IN THE	
MIDDLE OF THE ROAD. I INQUIRED IF HIS WIFE WAS C	HIM AUD HE SA	<u>מיו</u>
NO IT WAS A FRIEND PARAMEDICS SHOWED UP. I CON	LO NOT TELL IF THE	٢
WERE WEARING SEAT BELTS, HE POSSIALY WAS		
I have read such page of this statement consisting of	presence of a lawyer before or during any a that I was not told or prempted what b	
	. 1	• <i>•••</i> ••
WITNESS.	person giving voluntally statement	
WITH EIGHT.		

SUPPLEMENTAL CASE REPORT

		Page	1	Cess No.
Offense Control of the Control of th	Supervisory Correction	No. 2 or 3	l	
Vietim Name (or if Business list Incorporated Name) — DeIUER BLOCK SPACE	PASSONGER	Respo	neibie	Party
	OST AT 10:4	9 AM	ر. ن	SEVELAL.
- Dewee Passenge				
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OUT AS I WALKED UP TO THE CAR	HE WAS PLA	CFO	ON	P BACK BOALD
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Antipred Investigator Status (Investigator Status (patho Courdinatel)			

* Serious Or Fatal Accident Heasurements *

RPT = 8 N. OF Pole #

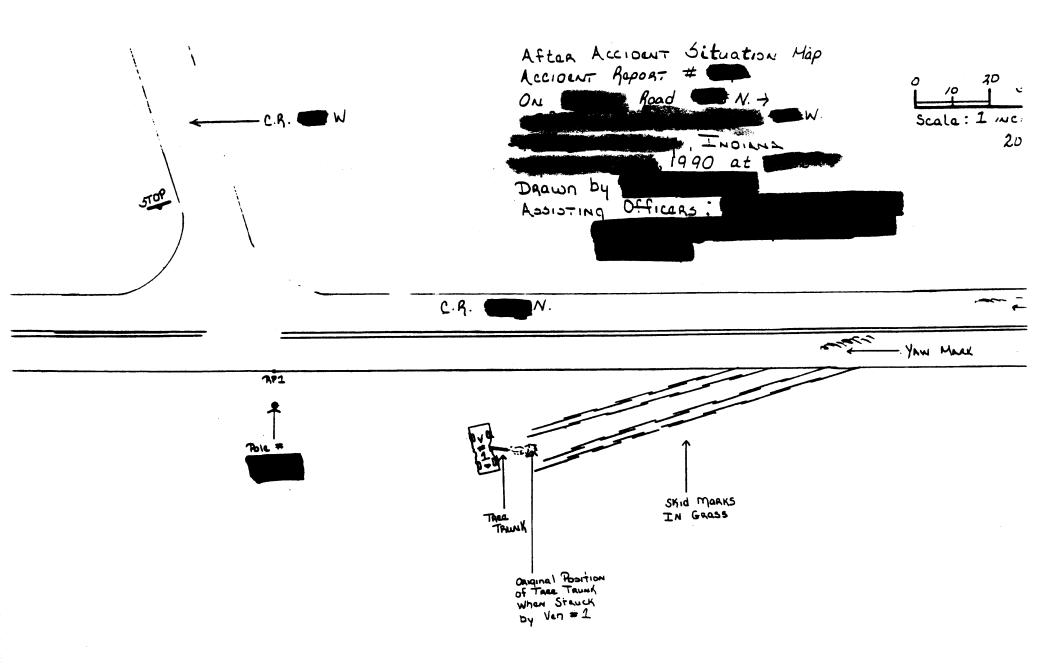
ON South edge

Reference Point Is : 8P2 = 241				-
Reference Point To Objects Below t	NORTH	SOUTH	EAST	lest
Vah # 1 > INVERTED				
R FRONT		244	58 ⁵	
R REQR		17 =	57°	
L RECOR		18 3	50 ⁸	
Ree truck by V#1				
at when struck		20 11	68 ³	
at Rest under V#1		20 4	572	
center of outside eno		213	612	
KINS - IN GROSS Secho of Book				
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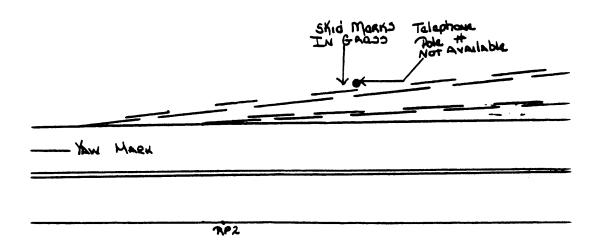
Traffic Engineer Assisting :

* Serious Or Fatal Accident AP1 : Ot of AP1 : Ot of AP1 : Ot of AP1 : AP2 = Ot OY	SOUTH O	rements * H ldoc t # doc c # doc	of Amou	vay of C	R F RP
Reference Point To Objects Below :	MORTH	SOUTH	EAST	HEST	• • •
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V > 00 - 1 (2)					
Yow Mark 40°= choro 0°= m.0		-			
= 171.0 = Rodius		1	 		
investigating Officers 1					

Traffic Engineer Assisting







Pole # Not Availage

* Grade of Road way = 4.97%

Appendix B:

NASS Accident Form



ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

US Department of Transportation

National Highway Traffic Safety Administration

2. Case Number - Stratum

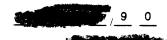
9003

IDENTIFICATION

3. Number of General Vehicle Forms Submitted

01

4. Date of Accident (Month, Day, Year)



5. Time of Accident

Code reported military time of accident.

NOTE: Midnight - 2400 Unknown - 9999

SPECIAL STUDIES INDICATORS

Check () each special study (SS12-SS16 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6SS12 Not	Active
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0

0

0

0

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

03

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class of Vehicle	General Area of Damage
12. 0 1	13. 0	14. 0 3	15. <u>R</u>	16. 42	17. <u>0</u> <u>0</u>	18. <u>0</u>
19. <u>0</u> 2	20	21. 0 3	22. <u>F</u>	234	24. <u>0</u> <u>0</u>	25 . <u></u>
26. 0 3	27	28^ 3	29 . <u> </u>	30. <u>3</u> <u>/</u>	31. <u>(° ()</u>	32. <u>N</u>
33. <u>0</u> <u>4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENTS SUPPLEMENT

Appendix C:

NASS Vehicle Forms

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number <u>i</u> <u>0</u>	11. Police Reported Alcohol or Drug Presence
2. Case Number – Stratum <u> </u>	(0) Neither alcohol nor drugs present(1) Yes (alcohol present)
3. Vehicle Number	(2) Yes (drugs present)(3) Yes (alcohol and drugs present)
VEHICLE IDENTIFICATION	(4) Yes (alcohol or drugs present – specifics unknown)
4. Vehicle Model Year 90	(7) Not reported
Code the last two digits of the model year (99) Unknown	(8) No driver present (9) Unknown
5. Vehicle Make (specify): 1 2	12. Alcohol Test Result for Driver Code actual value (decimal implied before first digit = 0.xx)
Applicable codes are found in your	(95) Test refused
NASS CDS Data Collection, Coding, and	(96) None given
Editing Manual. (99) Unknown	(97) AC test performed, results unknown (98) No driver present
012	(99) Unknown
6. Vehicle Model (specify): This (1/Cron) GL	Source
Applicable codes are found in your	ACCIDENT RELATED
NASS CDS Data Collection, Coding, and Editing Manual.	
(999) Unknown	13. Speed Limit <u>5</u> 5
7 Body Type	(00) No statutory limit
	Code posted or statutory speed limit (99) Unknown
Note: Applicable codes are found on the back of this page.	. 0
, •	14. Attempted Avoidance Maneuver
8. Vehicle Identification Number	(01) No avoidance actions
LFACP5745LG	(02) Braking (no lockup)
	(03) Braking (lockup)
Left justify; Slash zeros and letter Z (0 and ∠) No VIN – Code all zeros	(04) Braking (lockup unknown) (05) Releasing brakes
Unknown - Code all nine's	(06) Steering left
	(07) Steering right
OFFICIAL RECORDS	(08) Braking and steering left
•	(09) Braking and steering right (10) Accelerating
9. Police Reported Vehicle Disposition	(11) Accelerating and steering left
(0) Not towed due to vehicle damage (1) Towed due to vehicle damage	(12) Accelerating and steering right
(9) Unknown	(97) No driver present (98) Other action (specify):
10. Police Reported Travel Speed 9 9	(99) Unknown
Code to the nearest mph (NOTE: 00 means	15. Accident Type
less than 0.5 mph)	Applicable codes may be found on the back
(97) 96.5 mph and above	of page two of this field form
(99) Unknown	(00) No impact
	Code the number of the diagram that best describes the accident circumstance
	(98) Other accident type (specify):
	(99) Unknown
**** CTOB LIEBE IF OVA DO	
**** STOP HERE IF GV07 DC	DES NOT EQUAL 01-49 ****

		The System Constant Control of Control	rage 4
OCCUPANT RELATED 16. Driver Presence in Vehicle		24. Rollover (0) No rollover (no overturning)	2
(0) Driver not present (1) Driver present (9) Unknown		Rollover (primarily about the longitudinal a (1) Rollover, 1 quarter turn only	ł×:Sì
17. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	02	(2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (speci	fy);
18. Number of Occupant Forms Submitted	22	(5) Rollover – end-over-end (i.e., primarily about the lateral axis)(9) Rollover (overturn), details unknown	
VEHICLE WEIGHT ITEMS		OVERRIDE/UNDERRIDE (THIS VEHIC	CLE)
19. Vehicle Curb Weight $0 \ 3$, Code weight to nearest	≥ 00	25. Front Override/Underride (this vehicle)	0
100 pounds. (010) Less than 1050 pounds (135) 13,500 lbs or more		26. Rear Override/Underride (this vehicle)	0
(999) Unknown		(0) No override/underride, or not an end-to-end impact	
Source:	0.0	Override (see specific CDC) (1) 1st CDC	
Code weight to nearest 100 pounds. (00) Less than 50 pounds (97) 9,650 lbs or more	_ • •	(2) 2nd CDC (3) Other not automated CDC (specify):	
(99) Unknown		Underride (see specific CDC) (4) 1st CDC	
RECONSTRUCTION DATA		(5) 2nd CDC	
21. Towed Trailing Unit (0) No towed unit	_0	(6) Other not automated CDC (specify):	
(1) Yes—towed trailing unit (9) Unknown		(7) Medium/heavy truck override (9) Unknown	
22. Documentation of Trajectory Data for This Vehicle(0) No		HEADING ANGLE AT IMPACT FOI HIGHEST DELTA V	R
(1) Yes	·	Values: (000)-(359) Code actual value (997) Noncollision	
23. Post Collision Condition of Tree or Pole (for Highest Delta V)(0) Not collision (for highest delta V) with	5	(998) Impact with object (999) Unknown	_
tree or pole (1) Not damaged			98
 (2) Cracked/sheared (3) Tilted · 45 degrees (4) Tilted · 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced 		28. Heading Angle for Other Vehicle	<u>8</u>
(8) Other (specify):			

(9) Unknown

29. Basis for Total Delta V (Highest)	Secondary Highest
Delta V Calculated (1) CRASH program – damage only routine (2) CRASH program – damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction techniques, regardless of adequacy of damage data. (6) All vehicles and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available. COMPUTER GENERATED DELTA V Secondary Highest 30. Total Delta V Nearest mph (NOTE: 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown 31. Longitudinal Component of + q q Nearest mph (NOTE:00 means greater than - 0.5 and less than + 0.5 mph) (± 97) ± 96.5 mph and above (— 99) Unknown	32. Lateral Component of Delta V ——Nearest mph (NOTE:00 means greater than0.5 and less than +0.5 mph) (±97) ±96.5 mph and above (99) Unknown 33. Energy Absorption ——Nearest 100 foot-lbs (NOTE: 0000 means less than 50 Foot-Lbs) (9997) 999.650 foot-lbs or more (9999) Unknown 34. Confidence in Reconstruction Program Results (for Highest Delta V) (0) No reconstruction (1) Collision fits model – results appear reasonable (2) Collision fits model – results appear low (4) Borderline reconstruction – results appear reasonable 35. Type of Vehicle Inspection (0) No Inspection (1) Complete inspection (2) Partial inspection (specify): 36. Is this an AOPS Vehicle? (0) No 11 Yes 1
	R AND INTERIOR VEHICLE FORMS.

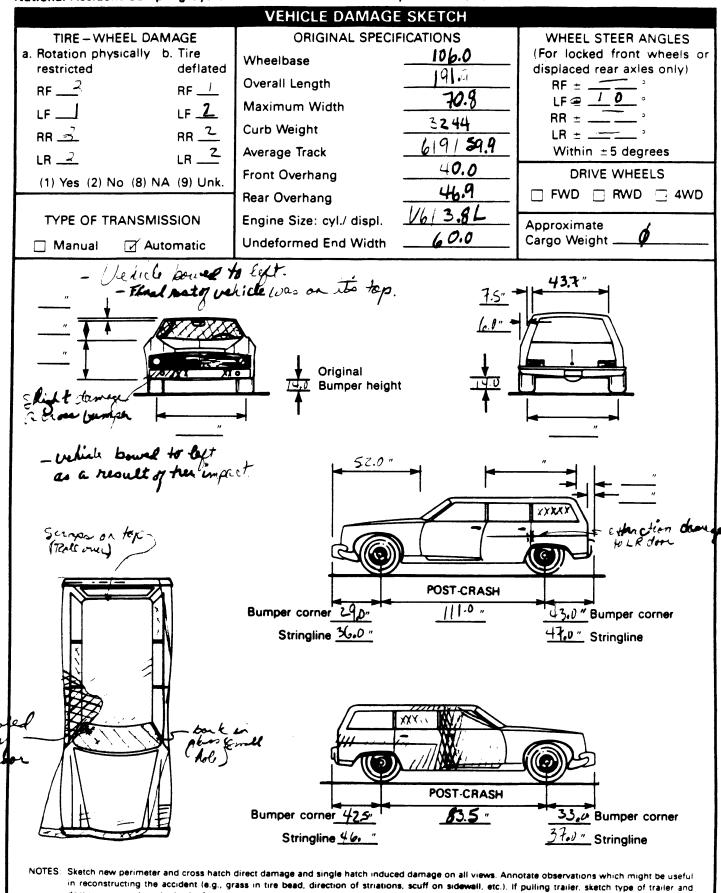


US Department of Transportation

EXTERIOR VEHICLE FORM

National High Administratio	lway Traffic Safety n						NA			SAMPLIN	
1. Primar	y Sampling Unit Nur	_		3. \	Vehicle I	Number		-			2_/
2. Case N	umber – Stratum		<u>0</u> 0	<u>う</u> IDENT	IEICAT	ION					
					IFICAT	ION					
vin <u>/</u>	FHCP =	5 7 4 S	5 4 6					el Year L		190	
Vehicle Ma	ake (specify):	RO			Vehic	le Mod	el (spec	ify):	AUR	us 1	CAGI~
			L	OCAT							
	e end of the damage r an undamaged axl			ehicle lo	ngitudir	nal cent	er line o	r bump	er corn	er for er	nd
Specific Impact No		ect Damage	•	Locatio	n of Fi	eld L		Locatio	n of Ma	ximum	Crush
/	Begun 36 k for	ruad RRad	E Beggi	~ 22°	found	RRad	4		(3	3	
_2	Entru ponta	1	En.	- 22 h	ontil				С,		
	1										
			CRU	SH PR	OFILE						
Si	lentify the plane at w II, etc.) and label adj leasure C1 to C6 from	ustments (e	e.g., free sp	oace).							
	npacts.										
th	ree space value is de le individual C locati de taper, etc. Record	ons. This m	ay include	the foll	owing:	bumper	lead, b	umper	body cotaper, s	ontour t ide prot	aken at rusion,
U	se as many lines/col	umns as ne	cessary to	describ	e each	damage	profile	ł .			
Specific	Plane of	Direct [amage	Field							
Impact Number	C-Measurements	Width (CDC)	Max Crush	L	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	±D
	Mis door	14.0	C3	42.0	2.5	16.0	34.0	28.5	15.0	7.25	+2.0
	-1 16			1 1	ļ	0.1	<u> </u>				
2	Tront bunger	60.0	Cı	600	12.5	6.5	7.0	6,5	7.0	10.0	0.0
	Stampen tapen	+			3.0	2.5	1,0	1.0	25	5.0	
	Cohral (Crust				5,5	5.5	5.5	5.5	5,5	5,5	
	(Corea) (Musi				20	.5	.5	0.0	0.0	0.0	0
											
3.	Top + + scra	tche ye	Crush	take							
	+ Strads for f	ntal de	may &	1 C	62"	form	a/ 0	7 Lan	CR "	uhsa	

Exemplan = 56.5"



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

damage received on the back of this page.

CDC WORKSHEET CODES FOR OBJECT CONTACTED 01-30 - Vehicle Number (57) Fence (58) Wall Noncollision (59) Building (31) Overturn – rollover (60) Ditch or Culvert (32) Fire or explosion (61) Ground (33) Jackknife (62) Fire hydrant (34) Other intraunit damage (specify): (63) Curb (64) Bridge (35) Noncollision injury (68) Other fixed object (specify): (38) Other noncollision (specify): (69) Unknown fixed object (39) Noncollision – details unknown Collision With Nonfixed Object Collision with Fixed Object (71) Motor vehicle not in transport (41) Tree (≤4 inches in diameter) (72) Pedestrian (42) Tree (>4 inches in diameter) (73) Cyclist or cycle (43) Shrubbery or bush (74) Other nonmotorist or conveyance (specify): (44) Embankment (75) Vehicle occupant (45) Breakaway pole or post (any diameter) (76) Animal Nonbreakaway Pole or Post (77) Train (50) Pole or post (≤4 inches in diameter) (78) Trailer, disconnected in transport (51) Pole or post (>4 but ≤12 inches in (88) Other nonfixed object (specify): diameter) (52) Pole or post (>12 inches in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier

DEFORMATION CLASSIFICATION BY EVENT NUMBER

(99) Unknown event or object

(55) Impact attenuator

(56) Other traffic barrier (specify):

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
01	42	+ 45	60	R	P	A	W	05
02	41	+ 80		F	D	<u></u>	S	1
03	31	000		<u> T</u>	D	D	0	<u>\$1</u>
								
								
				_				

		CULLIS	ION DEFORM	MATION CLAS	SSIFICATIO	17	
HIGHEST DI	ELTA "V"					•	
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage <u>Distribution</u>	(7) Deformation Extent
4. <u>0 1</u>	5. <u>42</u>	6. 6 1	7. <u>R</u>	8. £	9. <u>A</u>	10. <u>W</u>	11. <u>0</u> <u>5</u>
Second Hig	hest Delta "V	/ ''					
12. 0 2	13. <u>4 1</u>	14. <u>0</u> <u>9</u>	15. F	16. D	17. <u>L</u>	18. <u>S</u>	19. 0 L
			CRUS	H PROFILE			
(The crush pr	ofile for the appropriate	damage describ space below. A	bed in the CDC(s) above shou MENTS ARE II	uld be docume N INCHES.)	nted
HIGHEST C	DELTA "V"						
20. L	21. 			C4	C5	<u>C6</u>	22. + D
042	<u>03</u>	16	34	29	<u>15</u>	07	<u> </u>
Second Hig	ghest Delta "	'V''					
23. L	24. 	C2		C4	<u>C5</u>	C6	25. + D
060	<u>02</u>	01	<u>o</u> l	00	_00	_00	<u>→</u>
26. Are CDCs but Not C Automate (0) No (1) Yes	oded on The	- j ,	Researcher's A of Vehicle Disp (0) Not towed (0) vehicle dam (1) Towed due vehicle dam (9) Unknown	osition	- -	nal Wheelbase _Code to the _nearest _tenth_of_an_ind) Unknown	<u> 1060</u>
				CABLE VEHIC			



. I Teoartment of Transportation National Highway Traffic Safety Administration

1. Primary Samping Unit Number

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTE 1

GLAZING

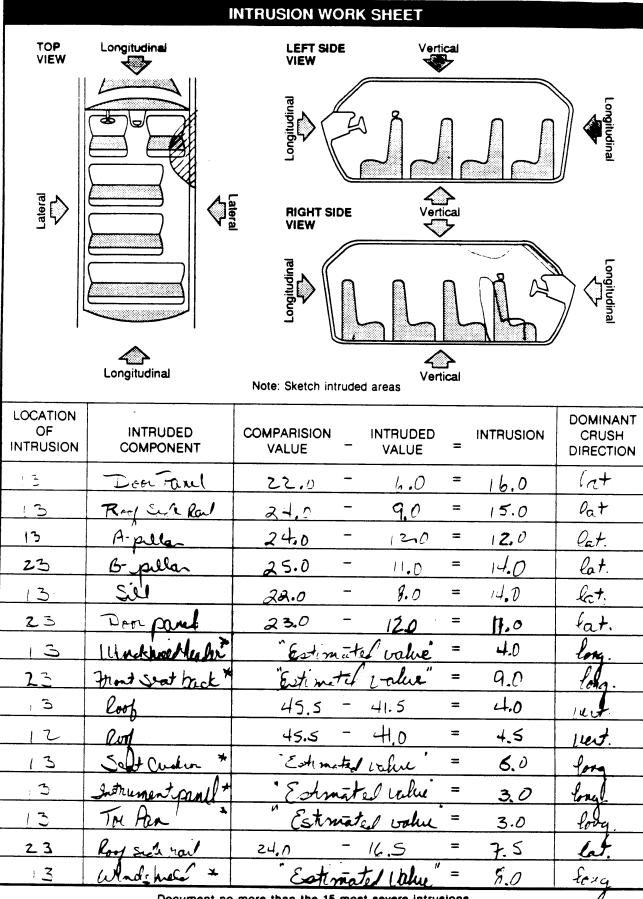
Glazing Demage from Impact Forces

2. Case Number – Stratum 9 10 3	2 x 1. x 1.
	18. WS 2 16. LF 17. RF 4 18. LR 0 19. RR
3. Vehicle Number	20. BL . 21. Roof _ 22. Other
INTEGRITY	(0) No glazing damage from impact forces
06	(2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces
4. Passenger Compartment Integrity	(4) Glazing out-of-place (cracked or not) and not have from
(00) No integrity loss	impact forces
Yes, Integrity Was Lost Through	(5) Glazing out-of-place and holed from impact forces
(01) Windshield	(6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident
-02) Door (side) -03) Door(hatch (rear)	(8) No glazing
(04) Roof	(9) Unknown if damaged
(05) Roof glass	Glazing Damage from Occupant Contact
(06) Side window (07) Rear window	
08) Roof and roof glass	23.WS 1 24. LF 0 25. RF 0 26. LR 0 27. RR
(09) Windshield and door (side)	28. BL . 29. Roof . 30. Other
(10) Windshield and roof	
(11) Side and rear window (12) Windshield and side window	(0) No occupant contact to glazing or no glazing
(13) Door and side window	(1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact
98) Other combination of above (specify):	(3) Glazing in place and holed by occupant contact
	(4) Glazing out-of-place (cracked or not) by occupant
99) Unknown	contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact
Door, Tailgate Or Hatch Opening	and holed by occupant contact
boot, language of flater operating	(6) Glazing disintegrated by occupant contact
5. LF 3 6. RF 3 7. LR 3 8. RR 3 9. TG/H 1	(9) Unknown if contacted by occupant
0) No door gate/hatch	If No Glazing Damage And No Occupant Contact or No
Door gate hatch remained closed and operational	Glazing, Then Code IV 31 Through IV 46 As 0
2 Door gate/hatch came open during collision	Type of Window/Windshield Glazing
(3) Door gate hatch jammed shut8) Other (specify)	31. WE 1 32. LF 1 33. RF 2 34. LR 0 35. RR 2
5 5 M3. 5 p33M//	
9) Unknown	36. BL . 37. Roof . 38. Other . 3
. .	(0) No glazing contact and no damage, or no glazing
Damage/Failure Associated with The or Hatch	(1) AS-1 — Laminated (2) AS-2 — Tempered
Opening in Collision. If the Management Code 6.	(3) AS-3 — Tempered
10. LF 0 11. RF 0 12 13 10 0 14 TG/H D	(4) AS-14 — Glass/Plastic
	(8) Other (specify):
(0) No doorgate hatch or door not opened	(9) Unknown
Door, Tailgate, or Hatch Came Open During Collision	Window Precrash Glazing Status
(1) Door operational (no damage)(2) Latch/striker failure due to damage	
(3) Hinge failure due to damage	39.WS 1 40. LF 0 41. RF 4 42. LR 0 43. RR 9
(4) Door structure failure due to damage	44. BL 0 45. Roof Q 46. Other 1
(5) Door support (i.e., pillar, sill, roof side rail,	ì
etc.) failure due to damage (6) Latch/striker and hinge failure due to	(0) No glazing contact and no damage, or no glazing (1) Fixed
damage	(2) Closed

(3) Partially opened (4) Fully opened (9) Unknown

9) Unknown

8) Other failure (specify):



Document no more than the 15 most severe intrusions

OCCUPANT AREA INTRUSION

Location of Intruding Magnitude Crush Intrusion Component of Intrusion Direction

Note: If no intrusions, leave variables IV 47-IV 86 blank.

1st 47. 3 48. 0 49. 4 50. 3

2nd 51. 1 3 52. 3 53. 4 54. 3

3rd 55. 2 5 56. 0 7 57. 4 58. 3

4th 59. $\frac{1}{3}$ 60. $\frac{2}{5}$ 61. $\frac{4}{5}$ 62.

5th 63. 2 3 64. 1 0 65. 3 66. 3

6th 67. 2 3 68. 1 3 69. 3 70. 3

7th 71. 1 3 72. 1 4 73. 3 74. 2

8th 75. $1 \frac{3}{1}$ 76. $1 \frac{5}{1}$ 77. $2 \frac{3}{1}$ 78. $2 \frac{3}{1}$

9th 79. 1 3 80. 2 4 81. 2 82. 2

10th 83. 1 2 84. 1 2 85. 2 86. 1

LOCATION OF INTRUSION

Front Seat

Fourth Seat

(11) Left (12) Middle (41) Left

(13) Right

(42) Middle (43) Right

Second Seat

(97) Catastrophic

(21) Left (22) Middle

(98) Other enclosed area (specify):

(23) Right

(99) Unknown

Third Seat

(31) Left

(32) Middle

(33) Right

Interior Components

(01) Steering assembly

INTRUDING COMPONENT

(02) Instrument panel left(03) Instrument panel center

(04) Instrument panel right

(05) Toe pan

(06) A-pillar

(07) B-pillar

(08) C-pillar

(09) D-pillar

(10) Door panel

(12) Roof (or convertible top)

(13) Roof side rail

(14) Windshield

(15) Windshield header

(16) Window frame

(17) Floor pan

(18) Backlight header

(19) Front seat back

(20) Second seat back

(21) Third seat back

(22) Fourth seat back

(23) Fifth seat back

(24) Seat cushion

(25) Back panel or door surface

(26) Other interior component (specify):

(27) Side panel · forward of the A-pillar

(28) Side panel - rear of the A-pillar

Exterior Components

(30) Hood

(31) Outside surface of vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s)

(specify):

(99) Unknown

MAGNITUDE OF INTRUSION

 $(1) \ge 1$ inch but < 3 inches

 $(2) \ge 3$ inches but < 6 inches

 $(3) \ge 6$ inches but < 12 inches

 $(4) \ge 12$ inches but < 18 inches

 $(5) \ge 18$ inches but < 24 inches

 $(6) \ge 24$ inches

(7) Catastrophic

(9) Unknown

DOMINANT CRUSH DIRECTION

(1) Vertical

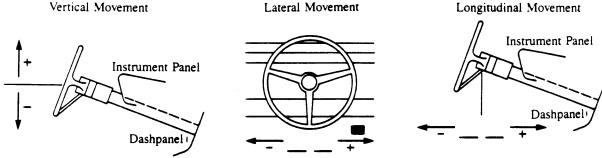
(2) Longitudinal

(3) Lateral

(7) Catastrophic

(9) Unknown

STEERING COLUMN WORKING DIAGRAMS STEERING COLUMN COLLAPSE Steering Column Shear Module Movement Extruder SHEAR CAPSULE After Compression Flare Possible Remaining Starter Right _ Grooves At 6 and 12 o'clock Direction and Magnitude of Steering Column Movement Extruder Compression = Measurement A STEERING COLUMN MOVEMENT Vertical Movement Lateral Movement Longitudinal Movement Instrument Panel Instrument Panel



	COMPARISON VALUE _ DAMAGED VALUE = MOVEMENT
VERTICAL	+ no apparent movement - unable to measure
LATERAL	intrusions/locked/ jansned doors =
LONGITUDINAL	_ =

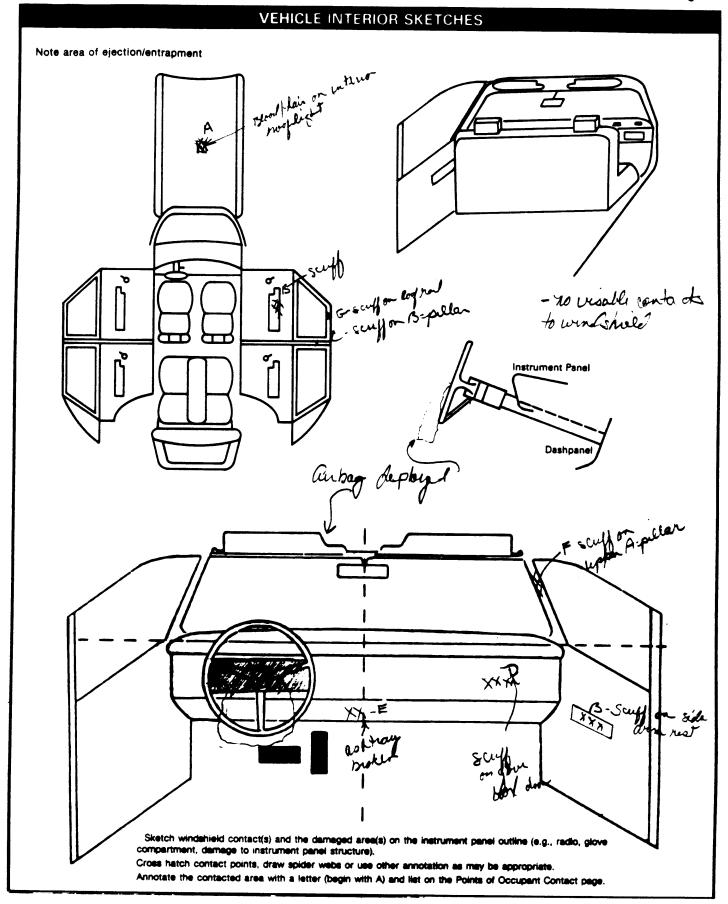
STEERING RIM/SPOKE DEFORMATION

COMPARISON VALUE		DAMAGED VALUE	=	DEFORMATION
	_		=	
	_		=	

99) Unknown

National Accident Sampling System - Crashworthinees Data System: Interior Vehicle Form

Page 4



				PANT CONTA	rior Vehicle Form	Page
	Interior Component	Occupant No. If	Body Region If	ANT CONTA	CI	Confidence Level of Contact
Contact	Contacted	Known	Known	Supportin	ng Physical Evidence	Point
Α	TG01.54	2	Head	3 ood me	song light lend lan	1
В	R. door 0-31	Z	Chest Chomen	Sculls	7	1
С	73-pila -33	a	Olan P	ક્લવ		1
D	R-whament 11	2	truce		Dechagine by	1
E	C-instructe	1	(na	askney-		1
F	A-pular-32	. 2	Head	Scul		1
G	R-201-2653		Head	Scuff		1
Н	\ \	· · · · · · · · · · · · · · · · · · ·		ri		
<u> </u>						
J						
K	ļ					
L	 					
M						
N	<u> </u>					
(06) Steering codes 04 (07) Steering selector (08) Add on deck, air (09) Left inst (10) Center in (11) Right inst (12) Glove co (13) Knee bo (14) Windship of the for pillar, insteering	y wheel hub/spoke y wheel (combination 4 and 05) y column, transmissio lever, other attachme equipment (e.g., CB, if r conditioner) rument panel and be instrument panel and be instrument panel and be impartment door lister eld including one or r billowing: front header strument panel, mirro assembly (driver side	of RIGHT (30) Int tape (31) (32) Iow (33) below (34) elow (35) more (36) r, A- pr,or a only)	Right side interio excluding hardwa Right side hardwa Right A pillar Right B pillar Other right pillar Right side window one or more of the frame, window si or roof side rail	or surface, are or armrests are or armrest (specify): w glass or frame w glass including ne following: ill, A-pillar, B-pillar,	ROOF (50) Front header (51) Rear header (52) Roof left side rail (53) Roof right side rail (54) Roof or convertible to FLOOR (56) Floor including toe pa (57) Floor or console mou transmission lever, inc console (58) Parking brake handle (59) Foot controls includin brake	p nn nted cluding
of the fo pillar, ins (passeng	eld including one or r illowing: front header, strument panel, or mi per side only) ont object (specify):	r, A- irror INTERIO (40)	Other right side of the common		REAR (60) Backlight (rear window (61) Backlight storage rack (62) Other rear object (spe	, door, etc.
	interior surface, exclusion	(42)	Belt restraint B-pi point Other restraint sys (specify):	llar attachment	CONSIDENCE LEVE	
(21) Left side (22) Left A pil (23) Left B pil	hardware or armrest	(45)	Head restraint sys Air bag Other occupants (CONFIDENCE LEVEL CONTACT POINT (1) Certain (2) Probable	
	•	(47)	Interior loses obje		(3) Possible	

(47) Interior loose objects

(25) Left side window glass or frame

(4) Unknown

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Availability	1	0	0
Ŕ	Function	4	∂	0
S T	Failure	1	0	0

- (0) Not equipped/not available
- (1) Airbag
- (2) Airbag disconnected (specify):
- (3) Airbag not reinstalled
- (4) 2 point automatic belts
- (5) 3 point automatic belts
- (6) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Restraint Function

(0) Not equipped/not available

Automatic Belt

- (1) Automatic belt in use
- (2) Automatic belt not in use
- (3) Automatic belt use unknown

Air Bag

- (4) Airbag deployed during accident
- (5) Airbag deployed inadvertently just
- prior to accident
 (6) Deployed, accident sequence undetermined
- (7) Nondeployed
- (8) Unknown if deployed
- (9) Unknown

Did Automatic (Passive) Restraint Fail

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify): _
- (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attributes for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	4	0	4
R S	Use	04	0	00
T	Failure Modes		0	0
S	Availability	4	3	4
⊘ ≡COZD	Use	0	0	0
	Failure Modes	0	0	0
T H	Availability			
1	Use			
R D	Failure Modes			
OTHER	Availability			
	Use			
	Failure Modes			

Manual (Active) Belt System Availability	(08) Other belt used (specify):
(0) Not available	
(1) Belt removed/destroyed	(12) Shoulder belt used with child safety seat
(2) Shoulder belt	(13) Lap belt used with child safety seat
(3) Lap belt (4) Lap and shoulder belt	(14) Lap and shoulder belt used with child safety seat
(5) Belt available - type unknown	(15) Belt used with child safety seat — type unknown
(8) Other belt (specify):	(18) Other belt used with child safety seat (specify):
	(99) Unknown if belt used
(9) Unknown	
Manual (Active) Belt System Use	Manual (Active) Belt Failure Modes During Accident
manda (Acuve) beit eyetein Use	(0) No manual belt used or not available
(00) None used, not available, or	(1) No manual belt failure(s)
belt removed/destroyed	(2) Torn webbing (stretched webbing not included)
(01) Inoperative (specify):	(3) Broken buckle or latchplate
	(4) Upper anchorage separated
(02) Shoulder belt	(5) Other anchorage separated (specify):
(03) Lap belt	(A) Bushan askanakan
(04) Lap and shoulder belt	(6) Broken retractor
(05) Belt used - type unknown	(7) Combination of above (specify):
	(8) Other manual belt failure (specify):
	(9) Unknown

HEAD RESTRAINTS: SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute	s for these variables may
be found at the bottom of the page. Head restraint type/damage and seat type	e/performance should be
assessed during the vehicle inspection then coded on the Occupant Assessm	ent Form.

		Left	Center	Right
۴-	Head Restraint Type/Damage	9 (removed)		3
Ŕ	Seat Type	06		06
S T	Seat Performance	06		1/2
S	Head Restraint Type/Damage	0	0	D
OZOOmw	Seat Type	05	05	15
	Seat Performance	1	1	1
T H	Head Restraint Type/Damage		<u> </u>	
1	Seat Type			
R D	Seat Performance			
0 T H t	Head Restraint Type/Damage			
	Seat Type			
HER	Seat Performance			

Occupant Position	at This
(0) No head restraints	
(1) Integral — no damage	

- (1) Integral no damage
- (2) Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage
- (6) Add-on damaged during accident
- (8) Other (specify): _
- (9) Unknown

Seat Type (This Occupant Position)

- (00) No seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., van type)
- (09) Other seat type (specify):
- (99) Unknown

Seat Performance (This Occupent Position)

- (0) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks failed
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):

135	- Sent back de	placed reason	left
()	- Sect cudion		
) Combination of a	bove (specify):	V
(8) Other (specify):		

- •
- (9) Unknown

away from seat custion.

DESCRIBE ANY INDICATION	OF ABNORMAL OCCUPANT	POSTURE (I.E. UN	USUAL OCCUPANT
CONTACT PATTERN)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OCCUPATION

		EJECTION/ENTRAPMENT DATA	
Con in ti	npiete the following if the research	her has any indications that an occupant was either ejected from or entra data on the Occupant Assessment Form.	ipped
EJE	CTION No [Yes []	body parts involved in partial ejection(s):	
			,
			<u> </u>
	Occupant Number		
	Ejection		
	(Note on Vehicle Interior Sketch) Ejection Area		
	Ejection Medium		
	Medium Status		
(3	tion) Complete ejection ?) Partial ejection 3) Ejection, unknown degree 9) Unknown	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Upknown (5) Integral structure (8) Other medium (specify) (9) Unknown):
(1 (2 (4 (5	tion Area) Windshield) Left front) Right front) Left rear) Right rear) Rear	Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): Medium Status (Immediately to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown	, Prio
ENT	RAPMENT NO.		
Des	cribe entrapment mechanism:		
_			
Con	nponent(s):		•
1			
r(No	te in vehicle interior diagram)		

Appendix D:

NASS Interview Form



U.S. Department of Transportation National Highway Traffic Safety

INTERVIEW FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Activities region
Primary Sampling Unit Number Interviewee(s) Role(s) or Name(s)
Case Number - Stratum 9003
Vehicle Number 0 1
Review the Interview Cue Sheet prior to conducting interview(s) to ensure the acquisition of all pertinent data.
GENERAL DESCRIPTION OF ACCIDENT SEQUENCE
GENERAL DESCRIPTION OF ACCIDENT SECOCIOCE
Herding puit on CR other while came only the till in the
mi-Ale of the road. I severed to the rest in order to avail a
- her on Collision. I thought I was o't on the should until I got to
the top of the hell and the should patter out causing us to stirt
Eliting Ross the west. I Howen't we were just going to hit some small
bushes but by hit a small free with Several brakches coming out of the
grown. I've inproofed the hele and rolled over onto our top. Noting that,
not entrapped - Too jammed pried open by
SPECIFIC QUESTIONS
- chat your sarlier but was overcast to time of accelerate roud was dry
= sund small cut (has) actions out of can wrenched my Powner
- Tran + rescared non Hospiel
- Missed got from work - due to inner to tree and mental effects a
de contents 0
Key to Researcher: Have you obtained the following through the interviewee(s) description and specific questions?
PRE-CRASH, AT IMPACT vehicle travel/driver intention [] Direction of travel [] Avoidance maneuvers [] Impact description/orientation [] Final rest position [] Previous vehicle damage - 7 [] Glazing type [] Vehicle glazing status [] PAR clarifications [] Glove box status
Cargo? No [Yes [] Interviewee's Estimated Cargo Weight
Present Location of Vehicle (if not yet inspected)?:

Page 2

	sampling system orasi	OCCUPANT DAT		rage				
Enter the occupant's seat position in the first row and complete the column below it using the information from the interviewee(s).								
SEAT POSITION	11	13						
AGE/SEX	431 M	33/F						
HEIGHT (IN.)	71							
WEIGHT (LBS.)	205							
POSTURE	N)ormal	Wormal						
EJECTED? [ℳNo []Yes	Nυ	No						
DESCRIBE THE EJECTION	NIA	N/A						
ENTRAPPED?	No	No						
DESCRIBE ENTRAPMENT	NIA	NIA						
TYPE OF RESTRAINT AVAILABLE?	Shep/shoulder aichaeg Properly worn	N/A Ap/Shoulder						
HOW WERE THE BELTS WORN?	Properly worn	Notworn	,					
DESCRIBE ANY RESTRAINT FAILURE MODE	refine	None						
TYPE OF TREATMENT	Treated + Released	Jutal						
DAYS IN HOSPITAL?	1	NIA						
NO. OF LOST WORK DAYS?	10	NA						

National Accident Sampling System - Crashworthiness Data System: Interview Form

Page 3

PSU Number .

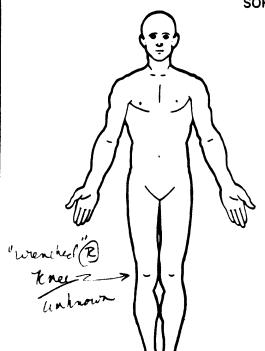
Case Number - Stratum 9 0 0 3

Vehicle Number _______

Occupant Number / /

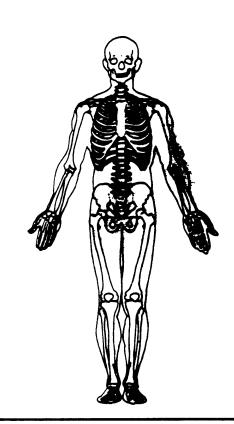
INJURY DATA FROM INTERVIEWEE(S)

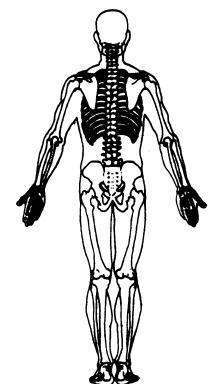
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):



SOFT TISSUE/INTERNAL INJURIES Several cuts to hand Cend for from broken (Crawling out of car)







The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

Appendix E:

NASS Occupant Forms



us Department of Transportation National Highway Traffic Safety Administration Form Approved
O M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

OCCUPANT ASSESSMENT FORM

Primary Sampling Unit Number	10	11. Occupant's Posture	_
2. Case Number – Stratum	003	(0) Normal posture (1) Abnormal posture (specify):	
3. Vehicle Number	0 1	(9) Unknown	
	01	EJECTION/ENTRAPMENT	
4. Occupant Number	<u> </u>	12. Ejection	0
OCCUPANT'S CHARACTERIS Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify both specify both specific both specify both specific both specify both specify both specify both specific bot	43	(0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	
(97) 97 years and older (99) Unknown 6. Occupant's Sex (1) Male (2) Female		13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front	0
(9) Unknown		(4) Left rear (5) Right rear	
7. Occupant's Height Code actual height to the nearest incl (99) Unknown	7 1	(6) Rear(7) Roof(8) Other area (e.g., back of pickup, etc.)(specify):	
8. Occupant's Weight Code actual weight to the nearest por (999) Unknown	<u>205</u> und.	(9) Unknown 14. Ejection Medium (0) No ejection	_0
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown		(1) Door/hatch/tailgate(2) Nonfixed roof structure(3) Fixed glazing(4) Nonfixed glazing (specify):	
10. Occupant's Seat Position Front Seat (11) Left side		(5) Integral structure (8) Other medium (specify):	
(12) Middle (13) Right side		(9) Unknown	
(14) Other (specify): Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify):		15. Medium Status (Immediately Prior to Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	_0
Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify):		16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to	<u>v</u>
Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):		constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown	
(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown			

National Accident Sampling System - Crashworthiness D	Pata System: Occupant Assessment Form Page 2
RESTRAINT SYSTEM AND SEAT EVALUATION	A Company of the Comp
	(0) Not equipped/not available
(0) Not available	(1) Airbag
(1) Belt removed/destroyed	(2) Airbag disconnected (specify):
(2) Shoulder belt	(2) 23 4.000
(3) Lap belt	(3) Airbag not reinstalled
(4) Lap and shoulder belt	(4) 2 point automatic belts
(5) Belt available—type unknown	(5) 3 point automatic belts
(8) Other belt (specify):	(6) Automatic belts destroyed or
	rendered inoperative
(9) Unknown	(9) Unknown
18. Manual (Active) Belt System Use	22. Automatic (Passive) Restraint Function 4
(00) None used, not available, or belt	(0) Not equipped/not available
removed/destroyed	Automatic Belt
(01) Inoperative (specify):	(1) Automatic belt in use
	(2) Automatic belt not in use
(02) Shoulder belt	(3) Automatic belt not in use
(03) Lap belt	(a) i mioritatio acit aco aritirotti.
(04) Lap and shoulder belt	Air Bag
(05) Belt used – type unknown	(4) Airbag deployed during accident
(08) Other belt used (specify):	(5) Airbag deployed inadvertently just prior
	to accident
(12) Shoulder belt used with child safety seat	(6) Deployed, accident sequence
(13) Lap belt used with child safety seat	undetermined
(14) Lap and shoulder belt used with child safety	(7) Nondeployed
seat	(8) Unknown if deployed
(15) Belt used with child safety seat – type unknown (18) Other belt used with child safety seat	(9) Unknown
·	23. Did Automatic (Passive) Restaint Fail ?
(specify):	(0) Not equipped/not available
(99) Unknown if belt used	(1) No
19. Proper Use of Manual (Active) Belts	(2) Yes (specify):
(0) None used or not available	
(1) Belt used properly	(9) Unknown
(2) Belt used properly with child safety seat	
	24. Police Reported Restraint Use
Belt Used Improperly	(0) None used
(3) Shoulder belt worn under arm	(1) Police did not indicate restraint use (2) Shoulder belt
(4) Shoulder belt worn behind back or seat	(3) Lap belt
(5) Belt worn around more than one person	(4) Lap belt
(6) Lap belt worn on abdomen	(5) Belt used, type not specified
(7) Lap belt or lap and shoulder belt used	(6) Child safety seat
improperly with child safety seat (specify):	(7) Other or automatic restraint (specify):
	lerbag
(8) Other improper use of manual belt system	(8) Restrained, type unknown
(specify):	(9) Police indicated "unknown"
(O) Hakaawa	i de name
(9) Unknown	25. Heed Restraint Type/Demege by Occupent at This Occupent Position
0. Manual (Active) Tallure Modes	(0) No head restraints
During Accident	(1) Integral—no damage
(0) No manual belt used or not available	(2) Integral – damaged during accident
(1) No manual belt failure(s)	(3) Adjustable – no damage
(2) Torn webbing (stretched webbing not included)	(4) Adjustable – damaged during accident
(3) Broken buckle or latchplate (4) Upper anchorage separated	(5) Add-on – no damage
(5) Other anchorage separated (specify):	(6) Add-on – damaged during accident
(b) Other andreage separates (specify).	(8) Other (specify):
(6) Broken retractor	
(7) Combination of above (specify):	(9) Unknown * removed prior + inspector
(8) Other manual belt failure (specify):	
(o) Other manual best failure (specify).	

(9) Unknown

20	Seat Type (This Occupant Position)	30. Child Safety Seat Orientation
	(00) Occupant not seated or no seat	(00) No child safety seat
	(01) Bucket	(00) NO Clind Safety Seat
		Designed for Book Essing for This App (AA/-) -ba
	(02) Bucket with folding back	Designed for Rear Facing for This Age/Weight
	(03) Bench	(01) Rear facing
	(04) Bench with separate back cushions	(02) Forward facing
	(05) Bench with folding back(s)	(08) Other orientation (specify):
•	(06) Split bench with separate back cushions	
l	(07) Split bench with folding back(s)	(09) Unknown orientation
1	(08) Pedestal (i.e., van type)	(05) Chkhown onentation
	(09) Other seat type (specify):	Design and four Formward Foreign four Third Association
1	(co) Gillor Godi typo (opodity).	Designed for Forward Facing for This Age/Weight
l		(11) Rear facing
1	(99) Unknown	(12) Forward facing
i	1	(18) Other orientation (specify):
27.	Seat Performance (This Occupant Position)	
ľ	(0) Occupant not seated or no seat	(40) Halanawa a si annai a
•	(1) No seat performance failure(s)	(19) Unknown orientation
ł	(2) Seat adjusters failed	
	(3) Seat back folding locks failed	Unknown Design or Orientation for This
	(4) Seat track/anchors failed	Age/Weight, or Unknown Age/Weight
	(5) Deformed by impact of occupant	(21) Rear facing
	(6) Deformed by passenger compartment intrusion	(22) Forward facing
	(specify):	(28) Other orientation (specify):
	Pi c l l	(25) Gallot Griothadion (Specify).
	- RT June 1944 Contident	
	anchor is sull favor	(29) Unknown orientation
	from the clustion	(99) Unknown if child safety seat used
	(7) Combination of above (specify):	
		31. Child Sefety Seet Harness Usage
	(8) Other (specify):	2.0
	(-) - (-) - (-) (-) (-) (-) (-) (-) (-)	32. Child Safety Seat Shield Usage $\frac{0}{2}$
	(0) 11-1	33. Child Safety Seat Tether Usage
	(9) Unknown	Note: Options below applicable to
		Variables OA31-OA33.
		(00) No child safety seat
		Nas Davina ad wide
	CHILD SAFETY SEAT	Not Designed with
		Harness/Shield/Tether
28.	Child Safety Seat Make/Model	(01) After market harness/shield/tether added, not
	(000) No child safety seat	used
	Applicable codes are found in your NASS CDS	(02) After market harness/shield/tether used
	Data Collection, Coding, and Editing Manual	(03) Child safety seat used, but no after market
		harness/shield/tether added
	(997) Other make/model (specify):	(09) Unknown if harness/shield/tether
	(998) Unknown make/model	added or used
	(999) Unknown if child safety seat used	
	too, ommovin il omia saloty soat asoa	Designed with Harness/Shield/Tether
20	Type of Child Safety Seat	(11) Harness/shield/tether not used
29.	, , , , , , , , , , , , , , , , , , ,	(12) Harness/shield/tether used
	(0) No child safety seat	(19) Unknown if harness/shield/tether used
	(1) Infant seat	. ,
	(2) Toddler seat	Unknown If Designed with Harness/Shield/Tether
	(3) Convertible seat	(21) Harness/shield/tether not used
	(4) Booster seat	
	(7) Other type child safety seat (specify):	(22) Harness/shield/tether used
	(1) Caron type office select seet (specify).	(29) Unknown if harness/shield/tether used
	(8) Unknown child safety seat type	(99) Unknown if child safety seat used
	(9) Unknown if child safety seat used	

National Accident Sampling System - Crashworthiness Data System: Occupant Assessment Form Page 4 **INJURY CONSEQUENCES** 38. Working Days Lost _ Code the number of days 34. Injury Severity (Police Rating) (up through 60) that the occupant (0) O – No injury lost from work due to the accident (1) C-Possible injury (00) No working days lost (2) B - Nonincapacitating injury (61) 61 days or more (3) A-Incapacitating injury (62) Fatally injured (4) K-Killed (97) Not working prior to accident (5) U-Injury, severity unknown (99) Unknown (6) Died prior to accident (9) Unknown 39. Time to Death _Code number of hours from time of 35. Treatment - Mortality accident to time of death up through 24 (0) No treatment hours. If time of death is greater than 24 (1) Fatal hours, code number of days. (Note: 1 day = (2) Fatal - ruled disease $31, 2 \text{ days} = 32, \dots \text{ n days} = 30 + \text{n up through}$ 30 days = 60Nonfatal (00) Not fatal (3) Hospitalized (96) Fatal - ruled disease (4) Transported and released (99) Unknown (5) Treatment at scene - nontransported (6) Treatment later 40. 1st Medically Reported Cause of Death (8) Treatment - other (specify): 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death (9) Unknown .Code the Occupant Injury from line 36. Type of Medical Facility (for Initial Treatment) number(s) for the medically reported injury(s) which reportedly contributed to (0) Not treated at a medical facility this occupant's death (1) Trauma center (00) Not fatal or no additional causes (2) Hospital (97) Other result (specify): (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (99) Unknown (8) Other (specify): 43. Number of Recorded Injuries for This Occupant (9) Unknown L Code the actual number of injuries recorded for this occupant. 37. Hospital stay (00) No recorded injuries _ Code number of days (up through 60) (97) Injured, details unknown that the occupant staved in the hospital (99) Unknown if injured (00) Not hospitalized (61) 61 days or more (99) Unknown **UPDATE CANDIDATE** NO[] YES [H *** STOP HERE *** IF THERE ARE NO RECORDED INJURIES (I.E., OA43=00, 97, 99)

U.S. Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

10

3. Vehicle Number

01

2. Case Number - Stratum

9003

4. Occupant Number

01

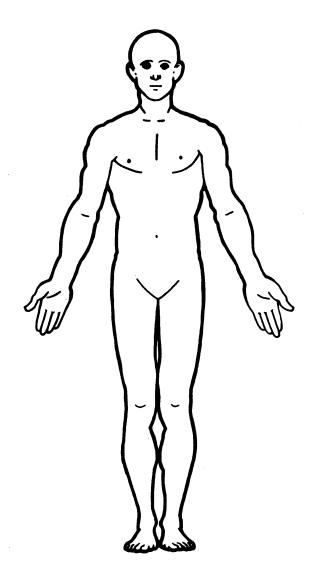
INJURY DATA

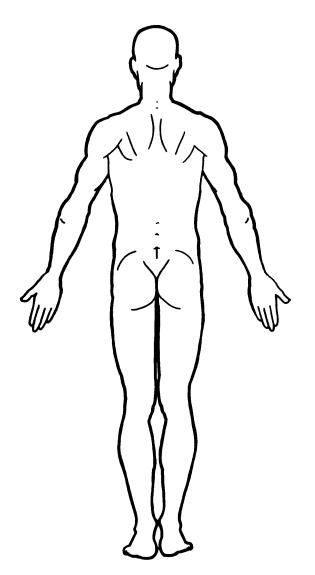
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	0		0	.I.C.—A.I.S	.			Injury Source Direct/		
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Injury Confidence		Occupant Area Intrusion No.
		المندان المندان								ο Δ
1 s t	5. 🚅	6. 1	7. 5	8. S	9. 🗹	10. 🗘	11. 1 0	12. 💆	13. <u>L</u>	14. 00
2nd	15	16	17	18	19	20	21	22	23	24
3rd	25	26. 🚅	27	28	29	30	31	32	33	34
4th	35	36	37	28	39	40	41	42	43	44
Pate	42	4.5	.=	40		**				
5th	45	46	47	48	49	50	51	52	53	54
6th	55	56	57	58	59	60	61	62	63	64
Ott.	<i>50.</i>			 .	J9. <u> </u>	· · ·	VI	.	· ·	
7th	65	86	67	68	69	70	71	72	73	74
8th	75	76	77	78	79	80	81	82	83	84
				-						
9th	85	86	87	88	89	90	91	92	93	94
10th	95.	96	97	98	99	100	101	102	103	104

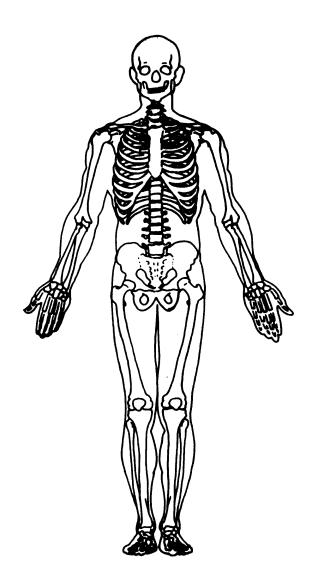
HS Form 433B (Rev. 1/90)

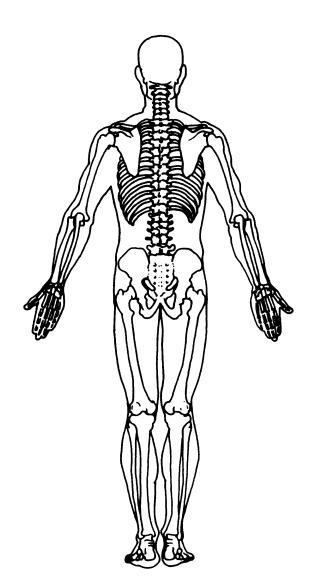
This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.



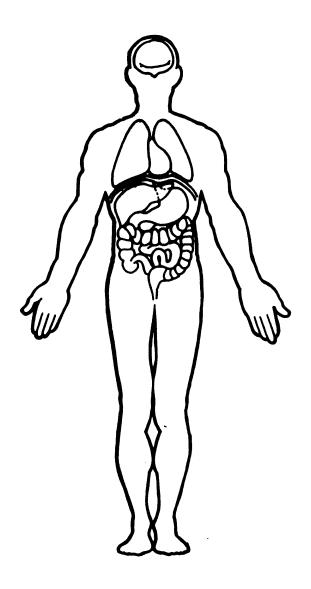


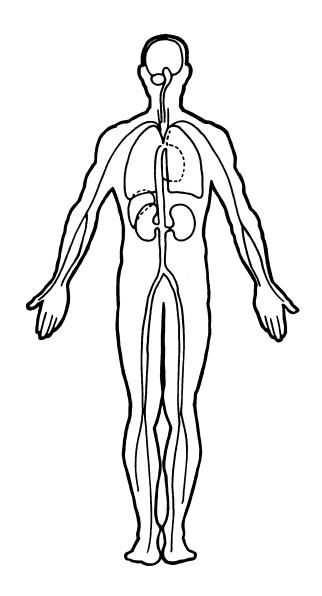
OFFICIAL INJURY DATA - SKELETAL INJURIES





OFFICIAL INJURY DATA - INTERNAL INJURIES







U.S. Department of Transportation

NATIONAL ACCIDENT SAMPLING SYSTEM

National Highway Traffic Safety Administration	UPDATE FORM	CRAS	HWORTHINESS DATA SYSTEM
3. Vehicle Number	<u>O</u> <u>O</u> <u>J</u> Address:	·	
4. Occupant Number	Other Inf	formation:	_
	(Saniti	ze this section prior to	Update submission.)
INJURY DAT	A CODED ON INITIAL	LSUBMISSION	
O.I.C. – A.I.S	S	Injury	
Source Sody Sody Solata Region Aspect Lesion	System A.I.S. Injury Organ Severity Source		rect Occupant Area
1st 5. 7 6. K 7. R 8. S	9. J 10. / 11. /	<u>0</u> 12. <u>3</u> 13.	<u>/</u> 14. <u>00</u>
2nd 15 16 17 18 1	9 20 21	22 23.	24
3rd 25 26 27 28 2	9 30 31	32 33.	34
4th 35 36 37 38 3	9 40 41	42 43.	44
5th 45 46 47 48 4	9 50 51	52 53.	54
6th 55 56 57 58 5	9 60 61	62 63.	64
7th 65 66 67 68 6	9 70 71	72 73.	74
8th 75 76 77 78 7	9 80 81	82 83.	84
9th 85 86 87 88 8	9 90 91	92 93.	94
10th 95 96 97 98 9	9 100 101	102 103.	104
NOTE: If necessary, keep copy of original	Occupant Injury form and	d submit as part of up	odate.
UPD	ATED CASE INFORM	ATION	
INITIAL Submission	FINAL		INITIAL Submission final
GV12. Alcohol Test Results for Driver 97	0 O OA35. Tre	atment - Mortality	<u>4</u> _
OA05. Occupant's Age 43	OA36. Typ	be of Medical Facility	<u> </u>
OA06. Occupant's Sex	· · · · · · · · · · · · · · · · · · ·	r Initial Treatment) spital Stay	00
OA07. Occupant's Height7		rking Days Lost	70
OA08. Occupant's Weight 205		ne to Death	00
OA17. Manual (Active) Belt System Availability 4		Medically Reported use of Death	00
OA18. Manual (Active) Belt System Use O 4	UI	d Medically Reported use of Death	00
OA21. Automatic (Passive) Restraint System		Medically Reported use of Death	00

OA43. Number of Recorded Inju-

ries for This Occupant

01 03

Availability

OA22. Automatic (Passive)

Restraint Function

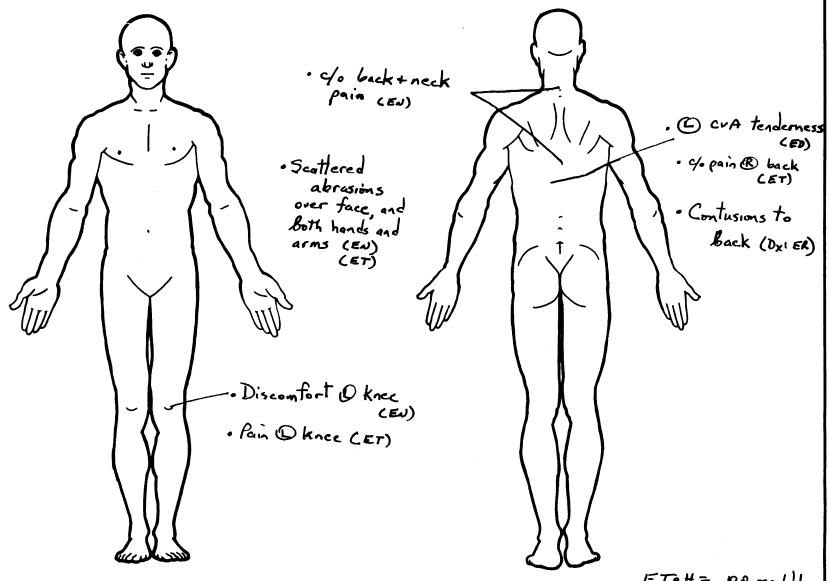
INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the unofficial and official prior to initial case submission **and from subsequently** acquired medical data. Remember not to double count an injury just because it was identified from two different sources.

	Ca		0.	I.C.—A.I.S	•			Injury Source	Direct/	
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Confidence Level	Indirect Injury	Occupant Area Intrusion No.
151	<u>5.3</u>	6. Z	7. Z	8. <u>c</u>	g. Z	10. 🚣	11. <u>4</u> 6	_{12.} <u>3</u>	13. 🖊	14. 00
2nd	15. <u>3</u>	16. <u>M</u>	17. <u>U</u>	18.丛	18. <u>U</u>	20. <u>/</u>	21. <u>46</u>	_{22.} <u>3</u>	23/	24
3rd	25. <u>7</u>	_{26.} <u>K</u>	27. K	28. Z	29. <u>T</u>	30. <u>/</u>	31. <u>/ o</u>	32. <u>3</u>	33	34. <u>O</u> O
4th	35	36	37	28	39	40	41	42	43	44
5th	45	46	47	48	49	50	51	52	53	54
6th	55	56	57	58	59	60	61	62	63	64
7 1h	65	66	67	68	69	70	71	72	73	74
8th	75	76	77 _	78	79	80	81	82	83	84
9th	85	86	87	88	89	90	91	92	93	94
10th	95	96	97	98	99	100	101	102	103	104

If greater than 10 injuries, code additional on Occupant Injury Data Supplement.

Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



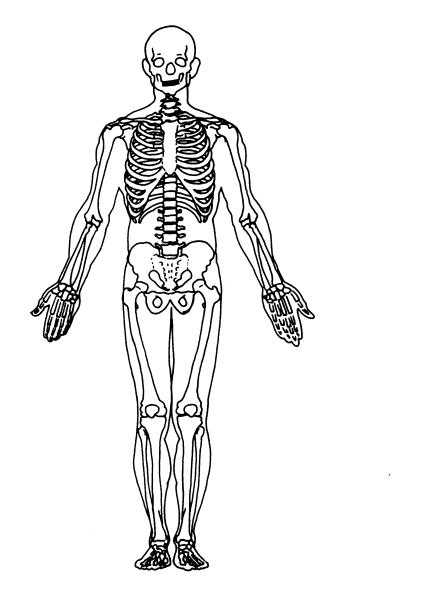
Urine Drug Screen:

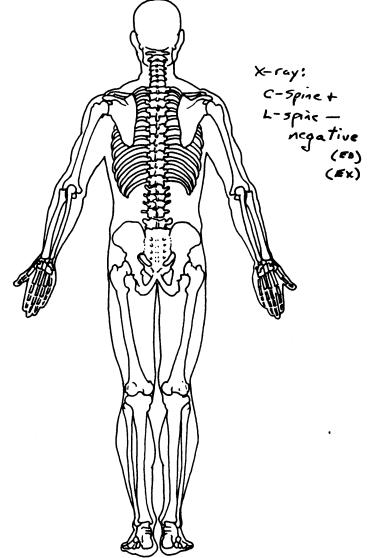
Only detected drug was Caffine

ET. H= .00 mg/21

OFFICIAL INJURY DATA – SKELETAL INJURIES

Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

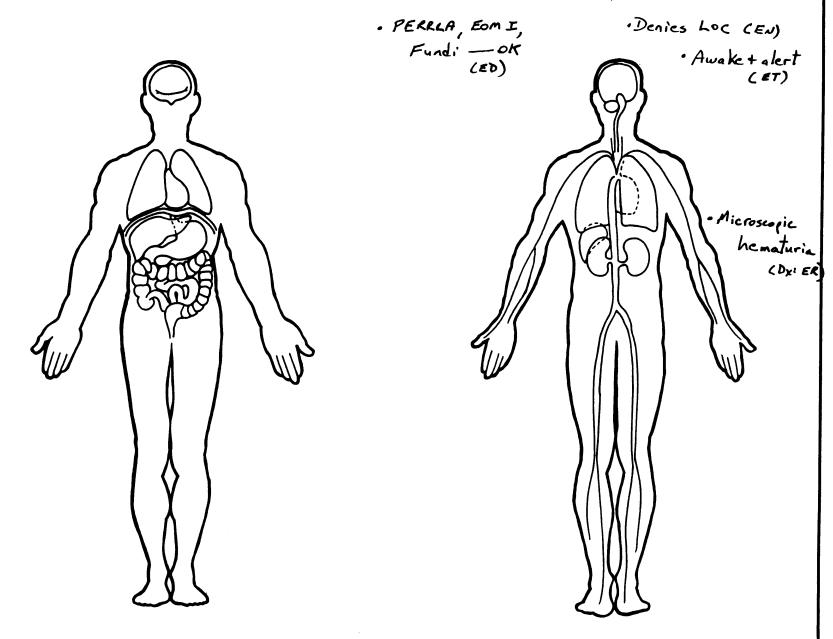




Page

National Accident Sampling System - Crashworthiness Data System: Update Form

OFFICIAL INJURY DATA - INTERNAL INJURIES



							E	MERGENC	Y ROOM	CHAR	Т
ACCOUNT	NO.						REG. DATE /		MED	RECORE	NO.
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EXAMINATION:

Lumbar Spine; Cervical Spine



cc: ER

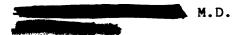
REPORT OF RADIOLOGIC CONSULTATION

There is no evidence fracture, dislocation or abnormal soft tissue calcification. Minimal bony productive change is seen about the posterior elements of L5-S1. Mild anterior lipping is seen involving vertebral bodies L1 and L4.

IMPRESSION: 1. Minimal degenerative changes as described.

There is no fracture or dislocation involving the bones and joints of the cervical spine. The vertebral bodies, intervertebral disc spaces and posterior elements are intact. There are two small radiopaque densities adjacent to the inferior end plate, anteriorly vertebral body C6 and C5 respectively. These likely represent old degenerative avulsions. There is straightening of the normal lordosis.

IMPRESSION: 1. Minimal anterior degenerative changes at C5 and C6 as described.



em /90

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					ffeine: DET			Nicotine: None detected	
								Cannabinoids: None detected	
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					<u>itriptyline</u> rtriptyline			Methadone: None detected	
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					xepin: None			Ruinine: None detected Morphine: None detected	
					phetamines:			Cocains: None detected	
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					enytoin: No			Propoxyphene: None detected	
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				He	probamate:	None dei	tected		
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u.S. Department of Transportation National Highway Traffic Safety

OCCUPANT ASSESSMENT FORM

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

11. Occupant's Posture (0) Normal posture
(1) Abnormal posture (specify):
(9) Unknown
EJECTION/ENTRAPMENT
12. Ejection
 (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):
(5) Integral structure (8) Other medium (specify): (9) Unknown 15. Medium Status (Immediately Prior to Impect) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown

National Accident Sampling System - Crashworthiness	Data System: Occupant Assessment Form	Page
RESTRAINT SYSTEM AND SEAT EVALUATION	21. Automob. Pleating Peoplet Opens Authority	\mathcal{G}
17. Manual (Asha) But Spran Arailability	- (o) Not equipped/Not available	
(0) Not available	(1) Airbag	
(1) Belt removed/destroyed (2) Shoulder beit	(2) Airbag disconnected (specify):	
(2) Shoulder beit (3) Lap beit		_
(4) Lap and shoulder belt	(3) Airbag not reinstalled	
(5) Belt available—type unknown	(4) 2 point automatic belts	
(8) Other belt (specify):	(5) 3 point automatic belts(6) Automatic belts destroyed or	
	rendered inoperative	
(9) Unknown	(9) Unknown	
18. Manual (Active) Belt System Use		0
(00) None used, not available, or belt	(0) Not equipped/not available	
removed/destroyed	A security Bulk	
(01) Inoperative (specify):	Automatic Belt (1) Automatic belt in use	
	(1) Automatic belt in use (2) Automatic belt not in use	
(02) Shoulder belt (03) Lan belt	(3) Automatic belt not in use	
(03) Lap belt (04) Lap and shoulder belt		
(04) Lap and shoulder belt (05) Belt used—type unknown	Air Bag	
(05) Belt used—type unknown (08) Other belt used (specify):	(4) Airbag deployed during accident	
(00) Other best used (specify).	(5) Airbag deployed inadvertently just prior	
(40) Ob autiday halo used wish shill assets ago	to accident	
(12) Shoulder belt used with child safety seat	(6) Deployed, accident sequence	
(13) Lap belt used with child safety seat(14) Lap and shoulder belt used with child safety	undetermined	
(14) Lap and shoulder belt used with child safety seat	1	
(15) Belt used with child safety seat - type unknown	(8) Unknown if deployed (9) Unknown	
(18) Other belt used with child safety seat		
(specify):	23. Did Autometic (Passive) Restaint Fail?	0
(99) Unknown if belt used	(0) Not equipped/not available	
<u>_</u>	(1) No	
19. Proper Use of Manual (Active) Belts	(2) Yes (specify):	
(0) None used or not available		
(1) Belt used properly (2) Belt used properly with child action and	(9) Unknown	
(2) Belt used properly with child safety seat		0
Belt Used Improperly	24. Police Reported Restraint Use (0) None used	<u> </u>
(3) Shoulder belt worn under arm	(0) None used (1) Police did not indicate restraint use	
(4) Shoulder belt worn under arm	(2) Shoulder belt	
(5) Belt worn around more than one person	(3) Lap belt	
(6) Lap beit worn on abdomen	(4) Lap and shoulder belt	
(7) Lap belt or lap and shoulder belt used	(5) Belt used, type not specified	
improperly with child safety seat (specify):	(6) Child safety seat	
	(7) Other or automatic restraint (specify):	
(8) Other improper use of manual belt system		
(specify):	(8) Restrained, type unknown (9) Police indicated "unknown"	
(9) Unknown	and the second s	•
	25. Head Restraint Type/Demage by Occupants at This Gatepart Position	* 3
20. Manual (Asthat-Shit Fallure Modes During Academic 0	(0) No head restraints	A management
(0) No manual belt used or not available	(1) Integral – no damage	
(1) No manual belt failure(s)	(2) Integral – damaged during accident	
(2) Torn webbing (stretched webbing not included)	(3) Adjustable – no damage	
(3) Broken buckle or latchplate	(4) Adjustable – damaged during accident	
(4) Upper anchorage separated	(5) Add-on – no damage	
(5) Other anchorage separated (specify):	(6) Add-on – damaged during accident	
(6) Broken retractor	(8) Other (specify):	
(7) Combination of above (specify):		
	(9) Unknown	
(8) Other manual belt failure (specify):	1	
(9) Unknown	1	

National Accident Sampling System - Crashworthiness D INJURY CONSEQUENCES	38. Working Devs Lost Page
34. Injury Severity (Police Rating) (0) O – No injury (1) C – Possible injury (2) B – Nonincapacitating injury (3) A – Incapacitating injury (4) K – Killed (5) U – Injury, severity unknown (6) Died prior to accident (9) Unknown	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
35. Treatment – Mortality (0) No treatment (1) Fatal (2) Fatal – ruled disease Nonfatal (3) Hospitalized (4) Transported and released	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal—ruled disease
(5) Treatment at scene – nontransported (6) Treatment later (8) Treatment – other (specify): (9) Unknown	(99) Unknown 40. 1st Medically Reported Cause of Death 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death
36. Type of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	Code the Occupant Injury from life number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify): (99) Unknown
(9) Unknown 37. Hospital stay Code number of days (us distugh 60) that the occupant stayed in the linealtal (00) Not hospitalized (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupent Code the actual number of injuries recorded for this occupent. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured
UPDATE CANDIDATE	NO[V] YES[]
*** STOP I IF THERE ARE NO RE	



U.S. Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

2. Case Number – Stratum 9003 4. Occupant Number 02

INJURY DATA

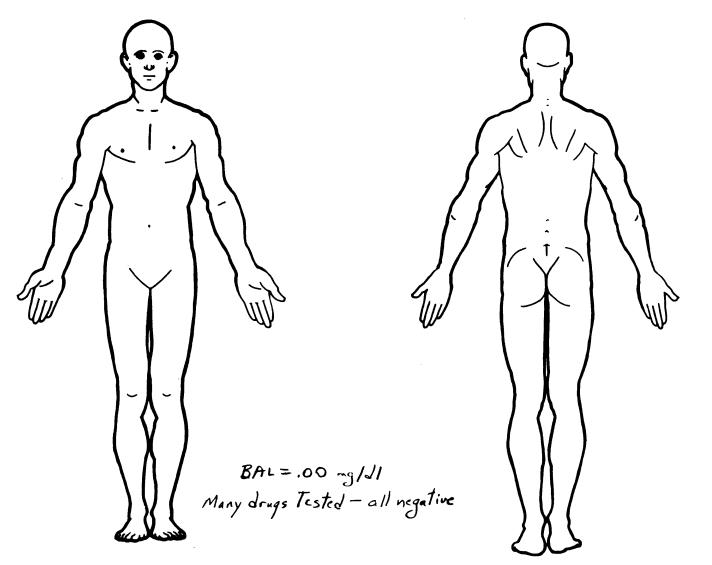
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

			0.	I.C.—A.I.S.			Injury			
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	5. <u>/</u>	6. 🖊	7. P	8. <u>Z</u>	s. Y	10. <u>Z</u>	11. <u>5</u> 3	12. <u>/</u>	13. <u>/</u>	14.02
2nd	15. <u>/</u>	16. <u>C</u>	17. <u>R</u>	18. F	19. <u>S</u>	20.4	21.30	22. 1	23. 1	24. <u>O</u> <u>I</u>
3rd	25	26. <u>C</u>	27. R	28. <u>L</u>	29. <u>P</u>	30. <u>3</u>	31. <u>30</u>	32/	33. <u>/</u>	34. <u>0 </u>
4th	35. <u>/</u>	36. <u>M</u>	37. <u>R</u>	28. <u>L</u>	39. <u>L</u>	40. 2	41. <u>30</u>	42	43. <u>/</u>	44. <u>0 1</u>
5th	45	46. <u>M</u>	47. <u>L</u>	48. <u>L</u>	49. Q	50. 2	51. 30	52. 2	53. <u>1</u>	54. <u>0, 1</u>
6th	55	56. <u>M</u>	57. <u>C</u>	58. <u>L</u>	59. <u>A</u>	60. <u>4</u>	61. <u>30</u>	62. <u>/</u>	63	64. <u>0 /</u>
7th	65	66	67	68	69	70	71	72	73	74
8th	75	76	77	78	79	80	81	82	83	84
9th	85	86	87	88	89	90	91	92	93	94
10th	95	96	97	96	96	100	101	102	103	104

OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

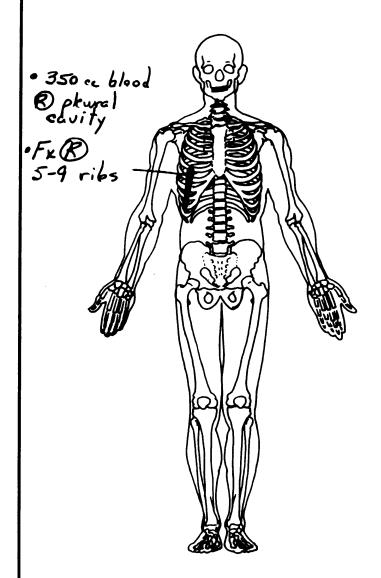
AUTO PSY

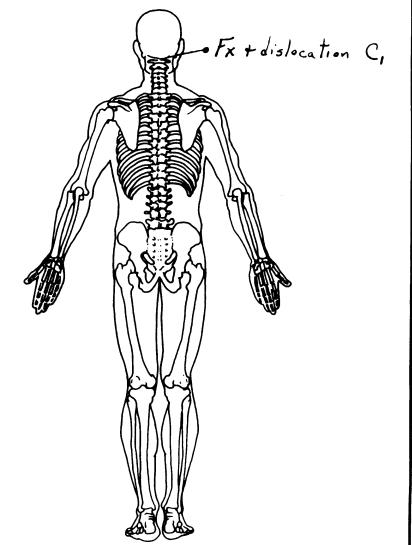
Indicate the Location, Lesion, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

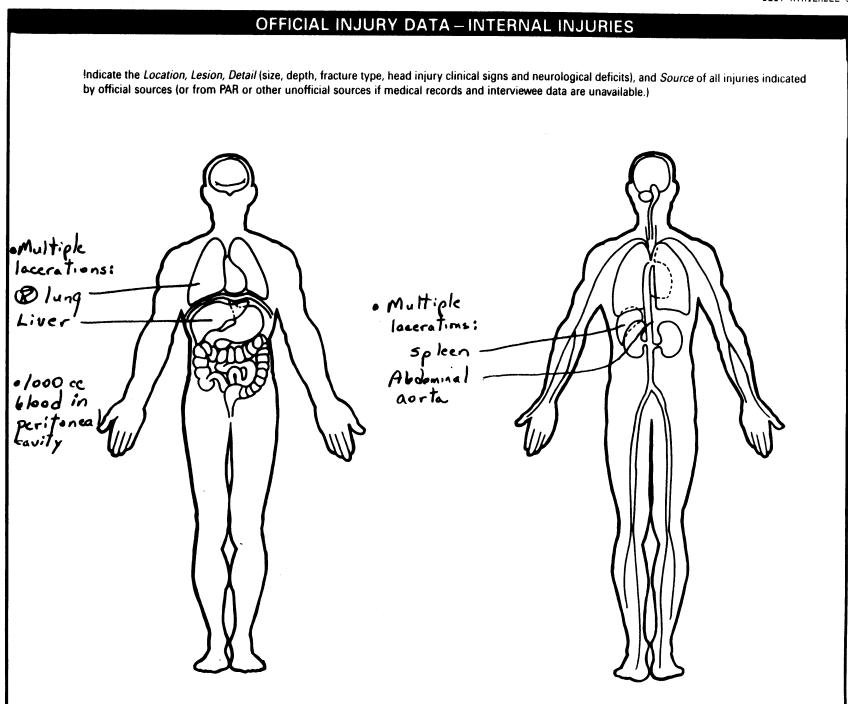


Cause of Death: exsenguination and 2º loceration Blung, Liver, spleen, +abdomins/ aurta

OFFICIAL INJURY DATA - SKELETAL INJURIES







Department of Pathology

HOSPITAL Indiana

Preliminary Autopsy Report

Sex: Female

Hospital: # Age: 33

Autopsy: / Date:

Date of Death: Date of Autopsy: -90 -90

Coroner

Hour:

Performed by:

Copies toi

Death Certificate signed as follows:

Immediate Cause of Death: Exsanguination

EM. D.

Due To: Laceration of right lung, liver, spleen, and abdominal

aorta

Due To: Car accident

Other Conditions: Fracture of right fifth to minth ribe; fracture and

dislocation of first cervical vertebra

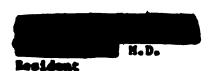
The following is a summery of the pertinent gross findings. A complete report will be sent to you at the completion of our studies.

SUMMARY:

The autopsy is performed on the unembalmed body of a 33 year old white female identified by the Coroner as the coroner as the coroner, and is unrestricted.

The findings related to the immediate cause of death are exanguination secondary to multiple locerations of the right lung, liver, spleen, and abdominel acrts. There are 350 cc. of bloody fluid in the right pleural cavity and 1000 cc. of bloody fluid in the peritoneal cavity. Fracture and dislocation of the right fifth to ninth ribs and the first cervical vertebra are noted.

In summary, the immediate cause of death is due to exanguination and secondary to laceration of the right lung, liver, splean, and abdominal sorts.





	SPECIAL CHEMISTRY	
FE97		units range
T-ERAPEUTIC DRUGS & TOXICOLOGY		
	<u> </u>	
		•
	Blood/Serum ปีกับสู	Scheen

The second secon	Phenoparbital: None detected	
	Barolturates excluding Phenobarbita	T None detected
	Caffeine: DETECTED	"Nicotine: None detected"
	Acetaminoonen: None detected	
	Ethinamate: None detected	Strychnine: None détécted
	Prenothiazine Metabolite: Mone Jetec	ted
	Amitripty line: None detected	Methadone: None detected
	Nortriptyline: None detected	Methagualone: None detected
	Imspramine: None detected	Quinine: None detected
	Doxepin: None detected	Moronine: None detected
	•	Cocaine: None detected
	Methamonetamine: None detected	Codeine: None detected
	Pseugoephearine: None detected	PCPT None detected
and the state of t	Phenytoin: None detected	Propoxypnene: None detected
	Giuretnimide: None detected	Meperidine: None detected
	Benzodiazepines: None detected	
	and the second of the second o	
	SERUM ALCOHOL = 0.0 MG/DL OR 0.0007	